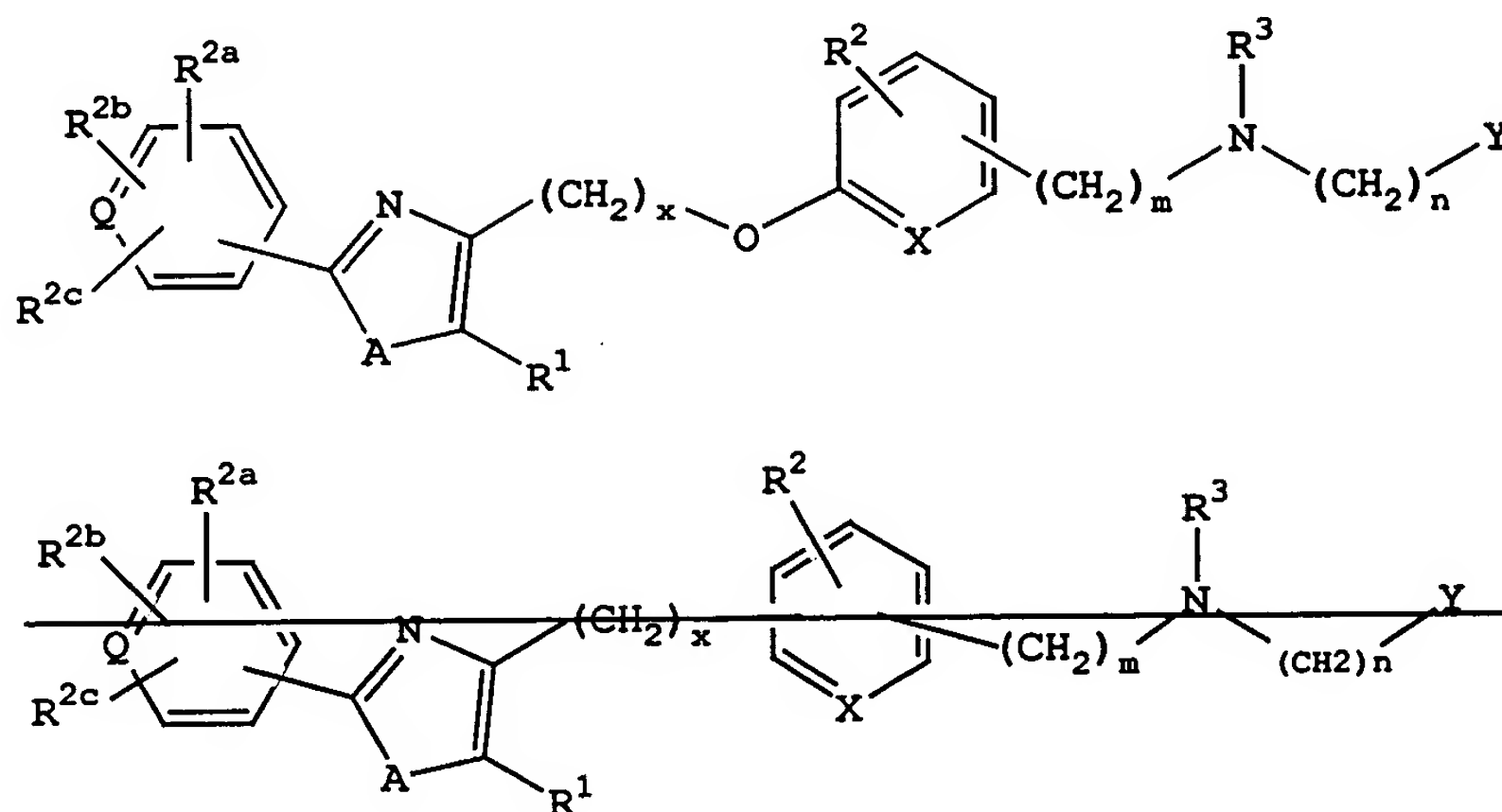


## CLAIM AMENDMENTS

**Claim 1 (cancelled)**

**Claim 2 (currently amended)**

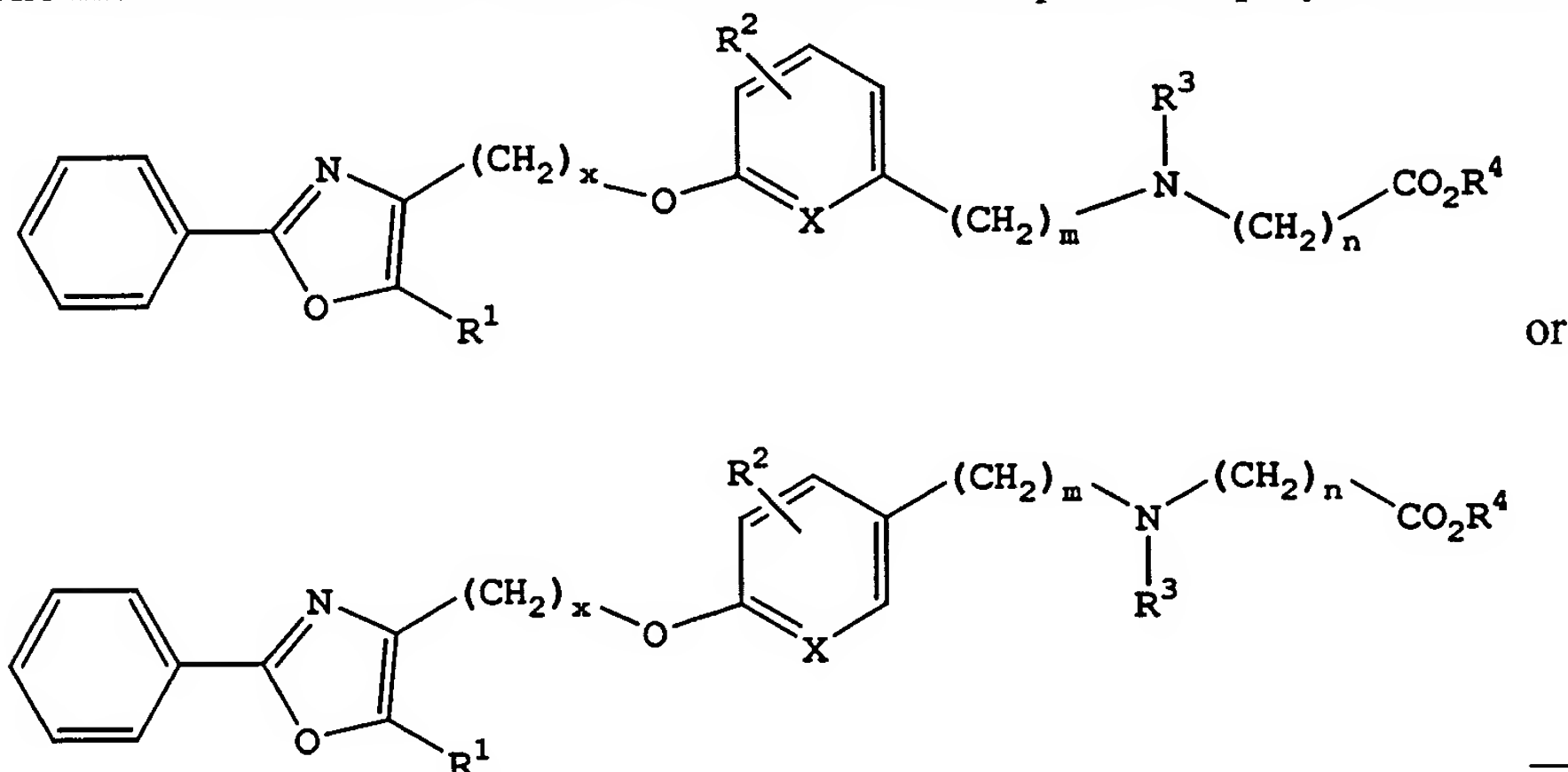
--2. The method as defined in Claim 34 wherein the compound employed has the structure



**Claim 3 (cancelled)**

**Claim 4 (previously amended)**

4. The method as defined in Claim 34 wherein the compound employed has the structure



**Claim 5 (previously amended)**

--5. The compound as defined in Claim 34 where in the compound employed  $(CH_2)_x$  is alkylene, alkenylene, allenyl, or alkynylene.--

Claims 6 to 9 (cancelled)

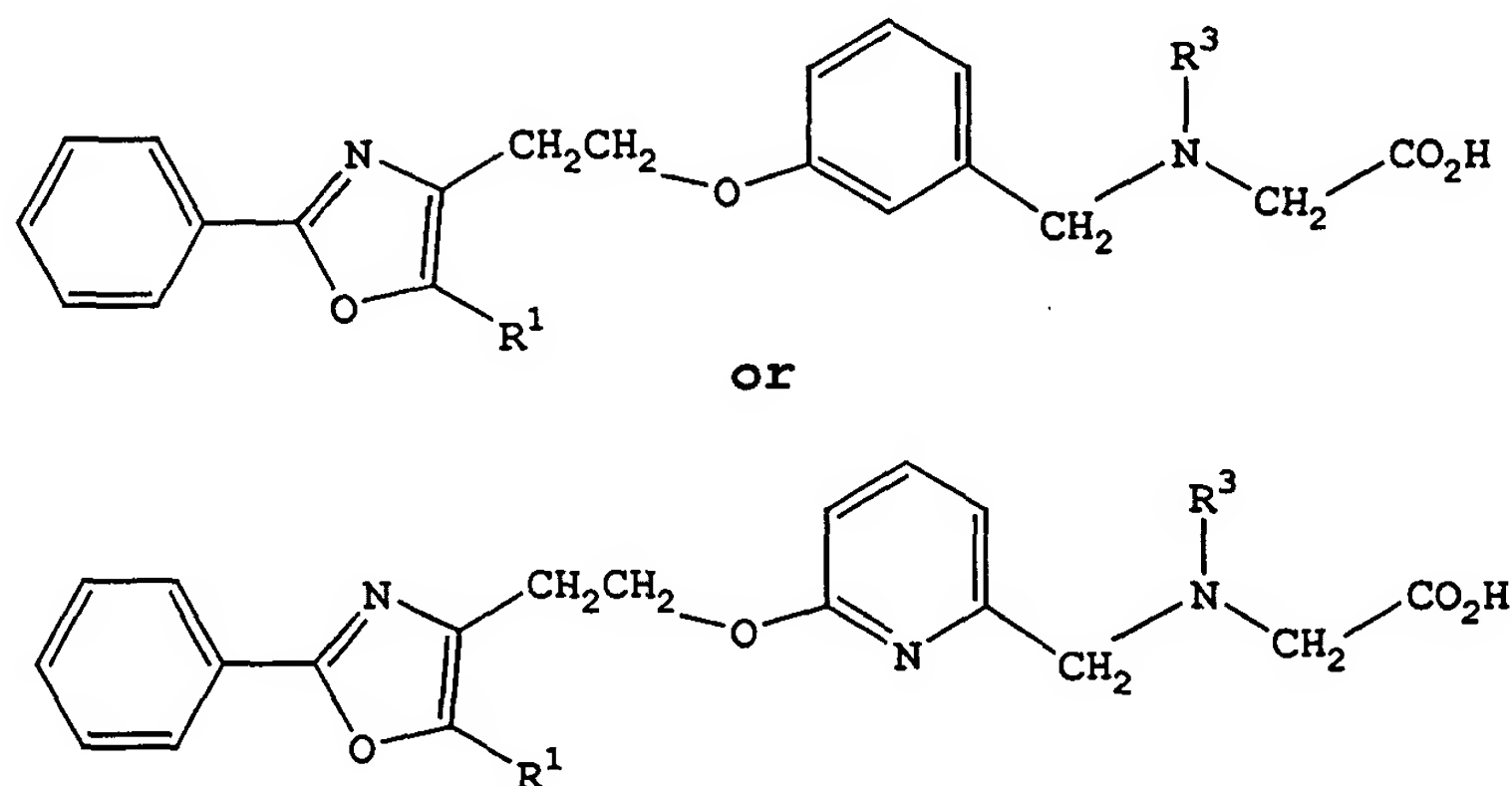
Claim 10 (currently amended)

--10. The method as defined in Claim 34 where in the compound employed  $(CH_2)_x$  is  $CH_2$ ,  $(CH_2)_2$ ,  $(CH_2)_3$ , or  $\begin{array}{c} CH_3 \\ | \\ CH \\ | \\ CH_3 \end{array}$ ,  $(CH_2)_m$  is  $CH_2$ , or  $\begin{array}{c} R_a \\ | \\ CH \end{array}$  (where  $R_a$  is alkyl or alkenyl),  $(CH_2)_n$  is  $CH_2$ ,  $R^1$  is lower alkyl,  $R^2$  is H,  $R^{2a}$  is H,  $R^4$  is H, and  $R^3$  is arylalkyloxycarbonyl, aryloxycarbonyl, ~~haloaryl-oxycarbonyl, alkoxyaryloxycarbonyl, alkylaryloxycarbonyl, aryloxyaryloxycarbonyl, heteroaryloxyarylalkyl, heteroaryloxycarbonyl, arylalkenyloxycarbonyl, cycloalkylaryloxycarbonyl, cycloalkyloxyaryloxycarbonyl, alkylalkenyloxycarbonyl, arylalkylsulfonyl, arylalkenylsulfonyl, arylthiocarbonyl, cycloheteroalkylalkyloxycarbonyl, cycloheteroalkyloxycarbonyl, or polyhaloalkylaryloxycarbonyl~~, which may be optionally substituted. -

Claims 11 to 13 (cancelled)

Claim 14 (previously amended)

--14. The method as defined in Claim 34 where the compound employed has the structure

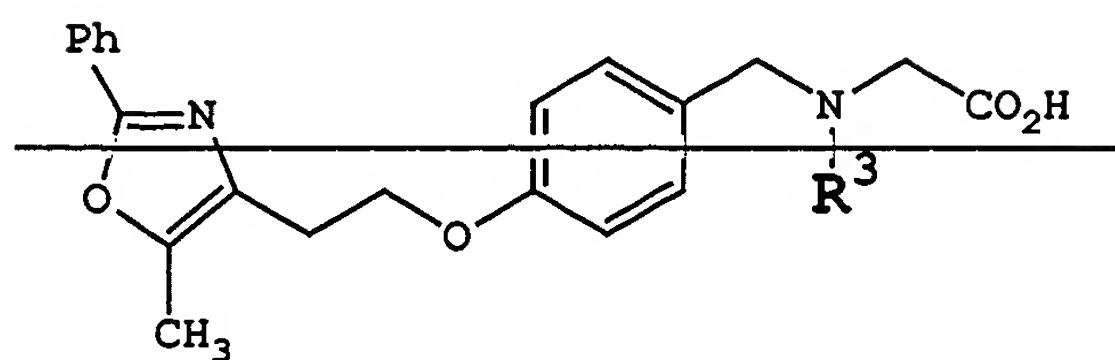
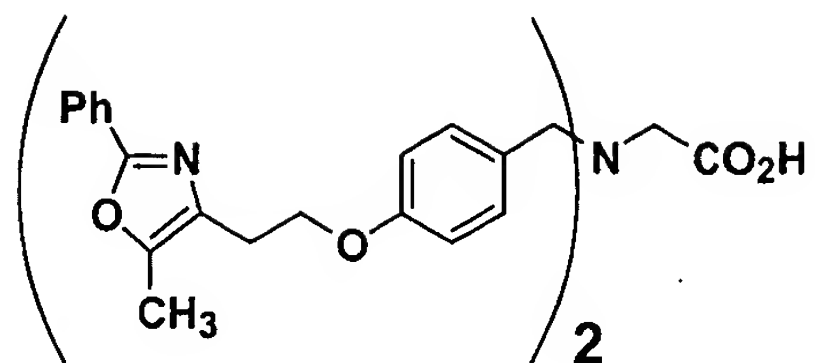


where  $(CH_2)_n$  is  $CH_2$  or  $\begin{array}{c} CH_3 \\ | \\ CH \end{array}$ .

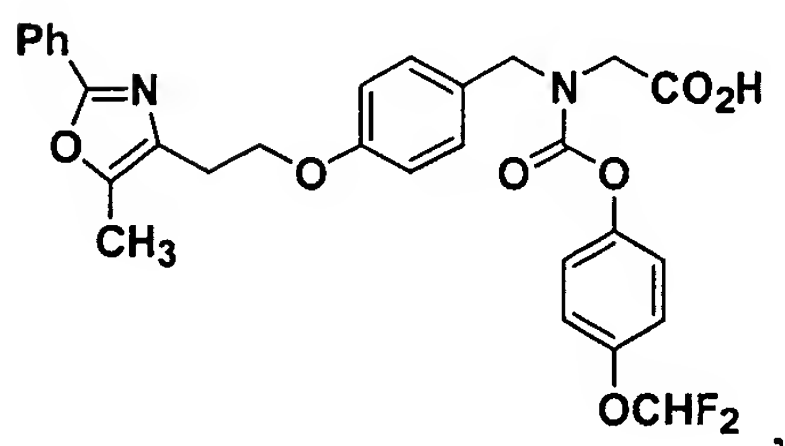
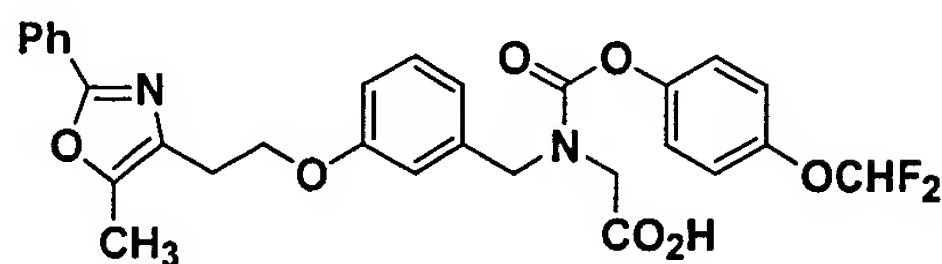
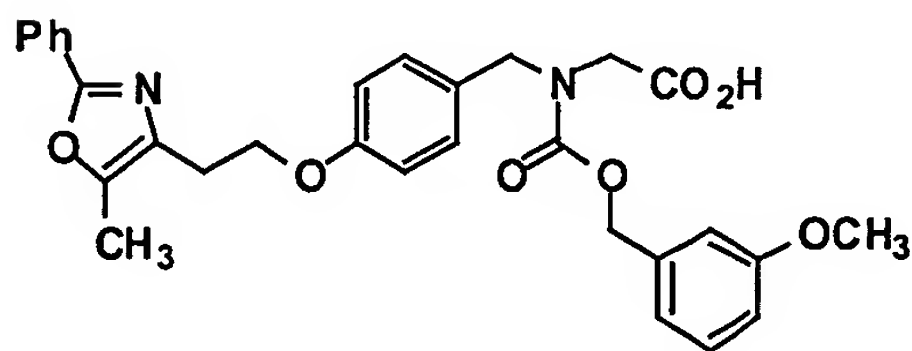
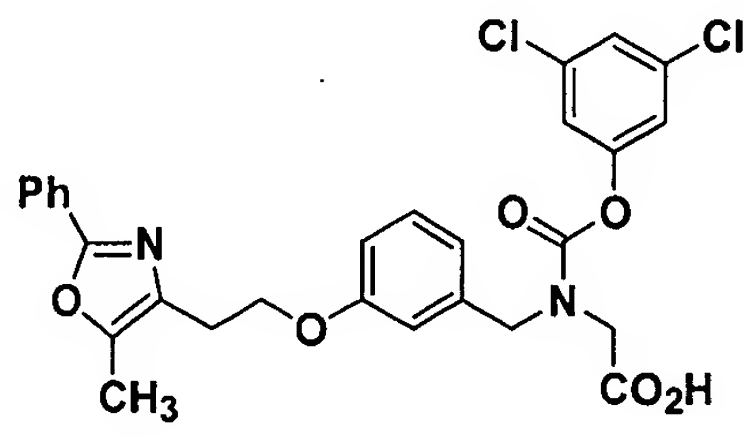
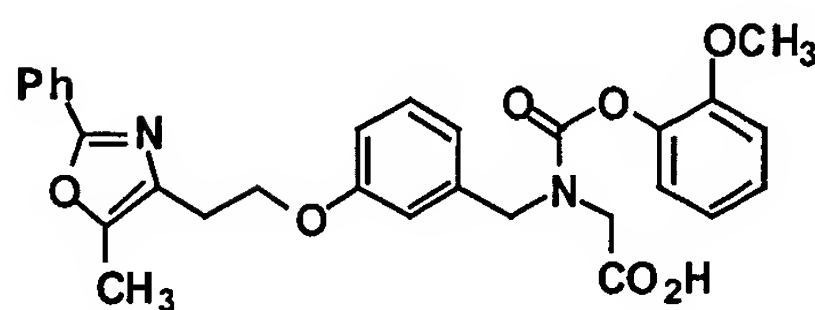
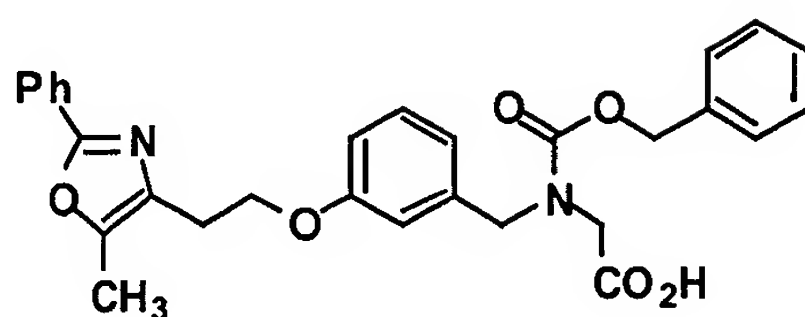
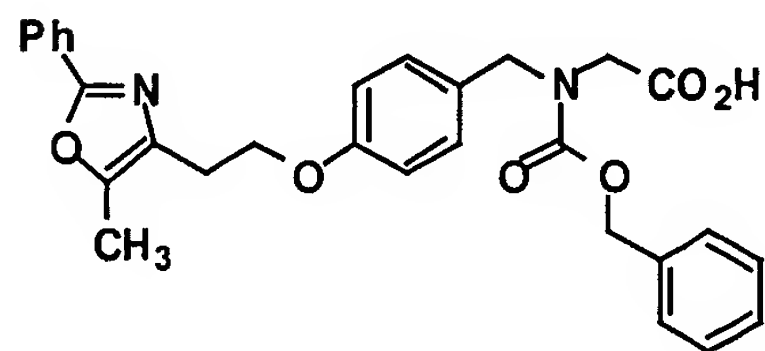
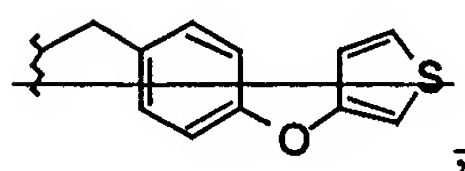
Claim 15 (cancelled)

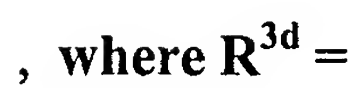
Claim 16 (currently amended)

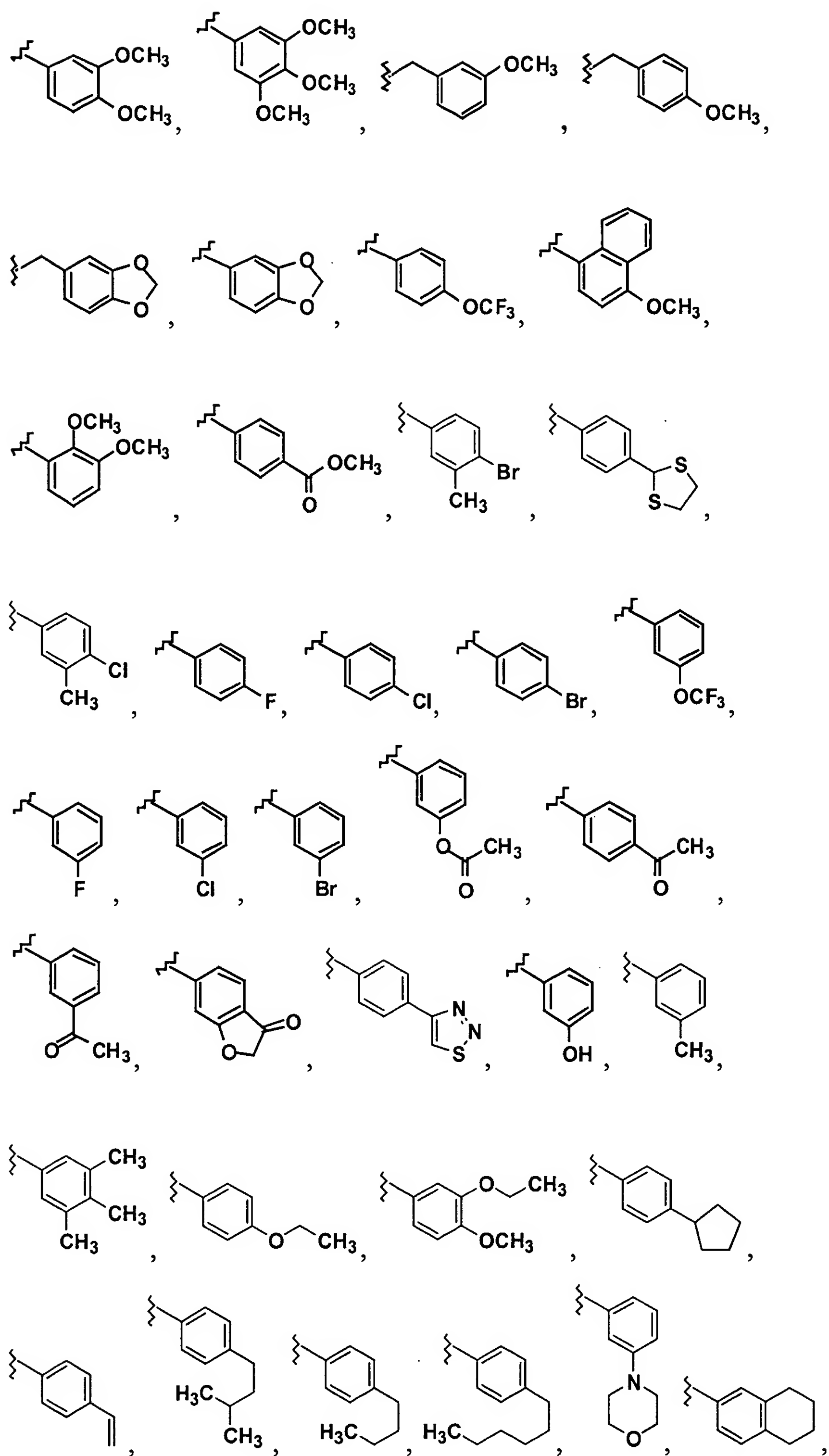
--16. The method as defined in Claim 34 wherein the compound employed has the structure

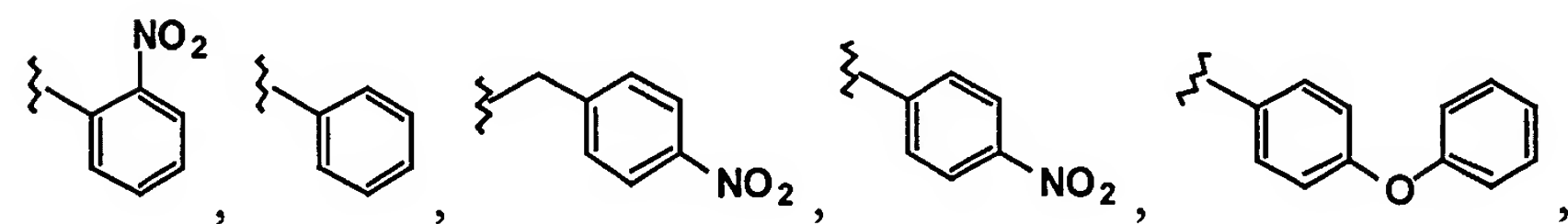
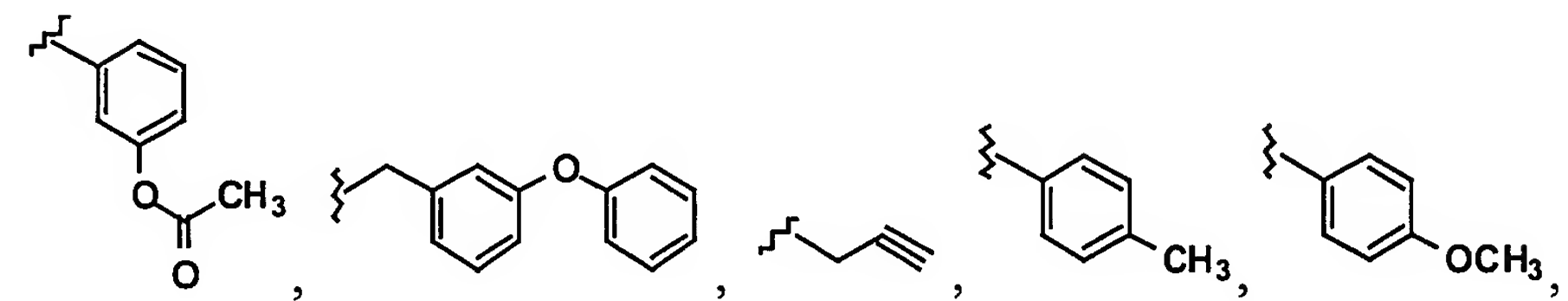
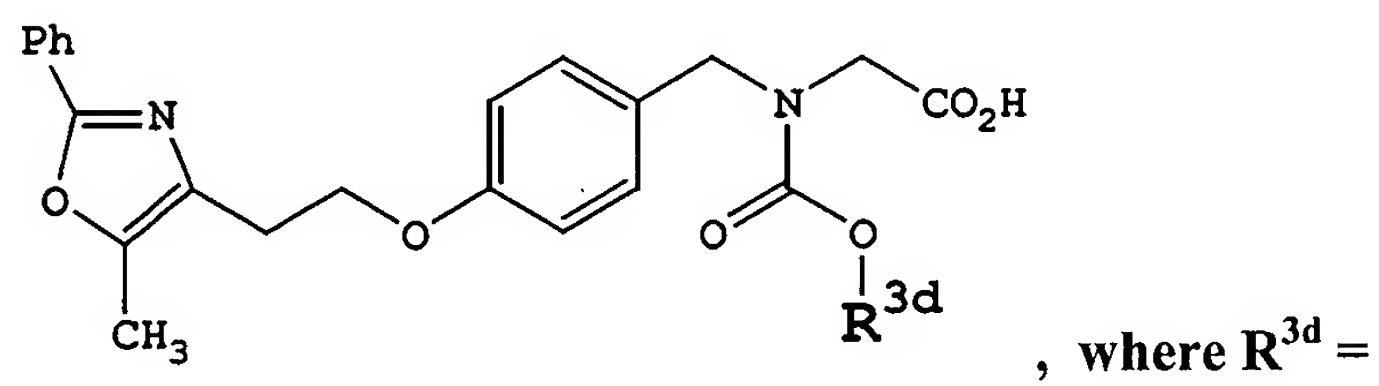
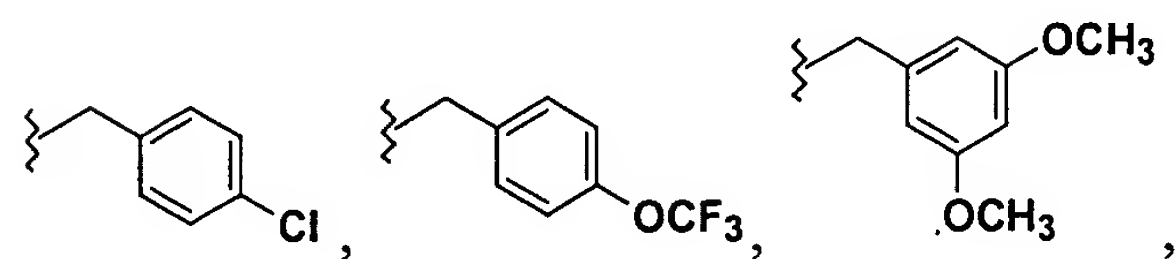
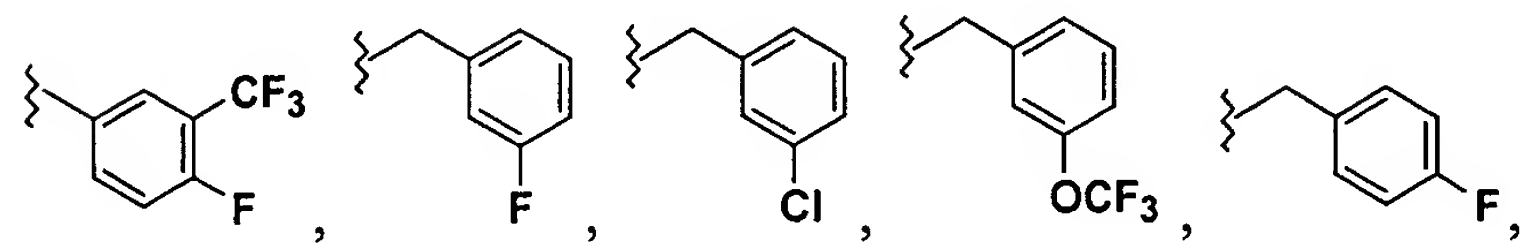
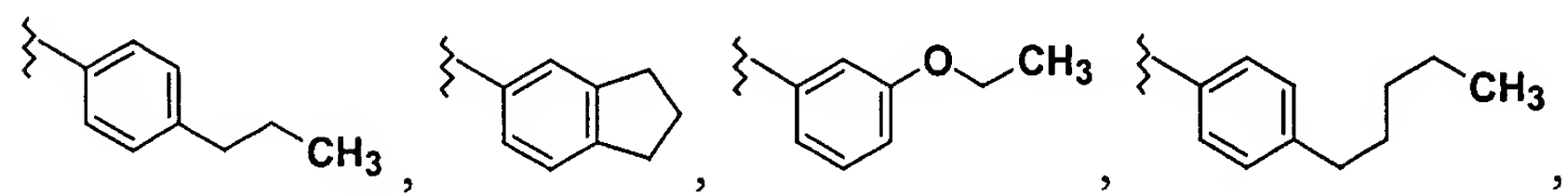
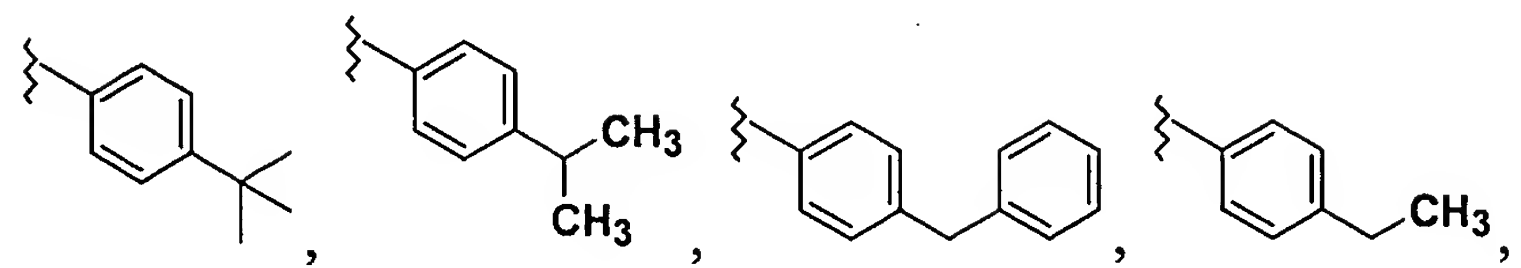
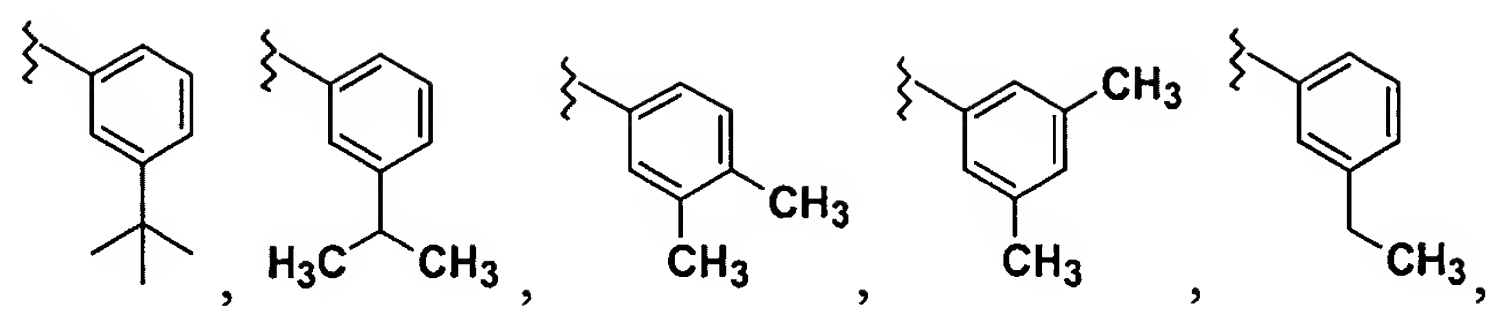


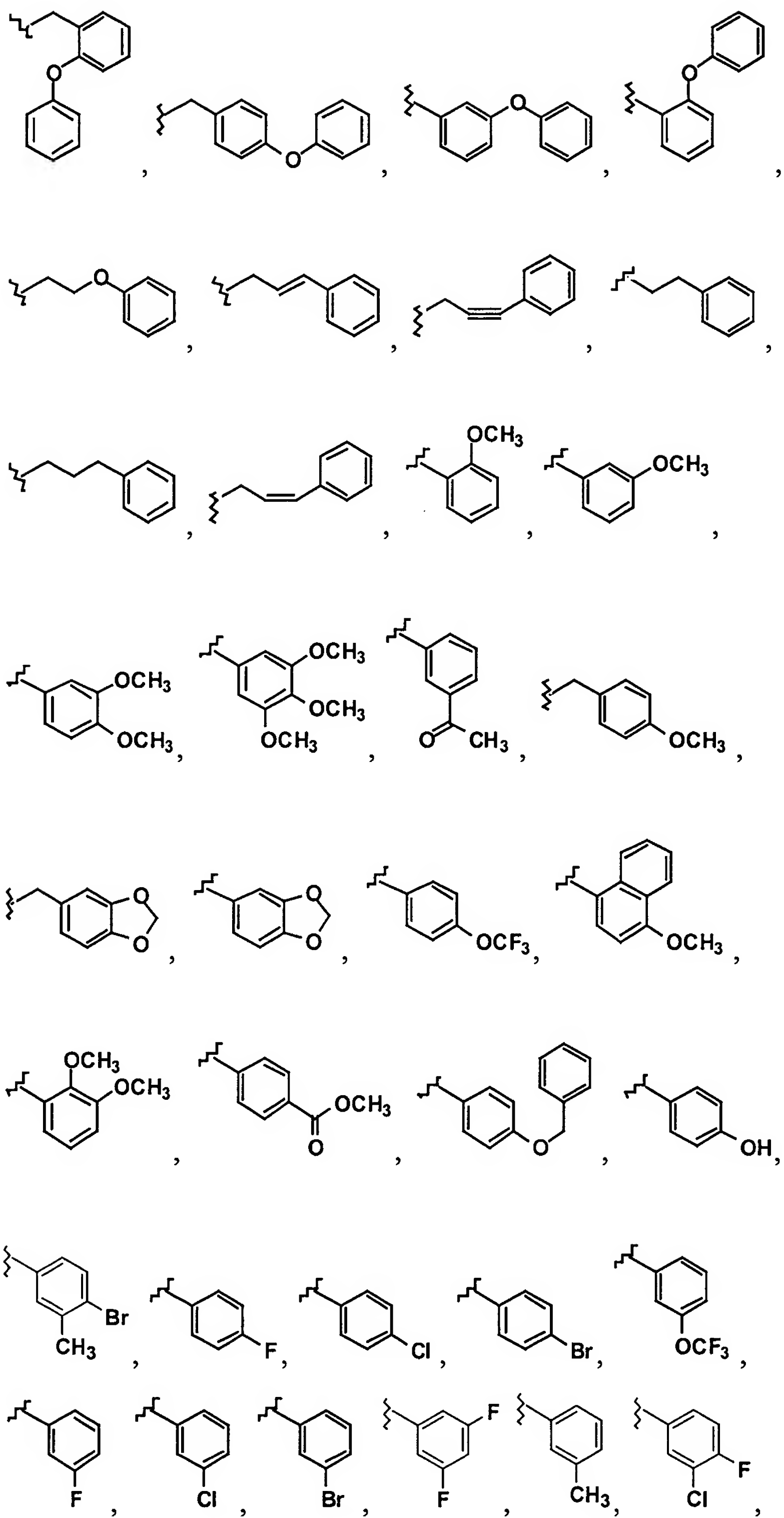
, where  $\text{R}^3 =$

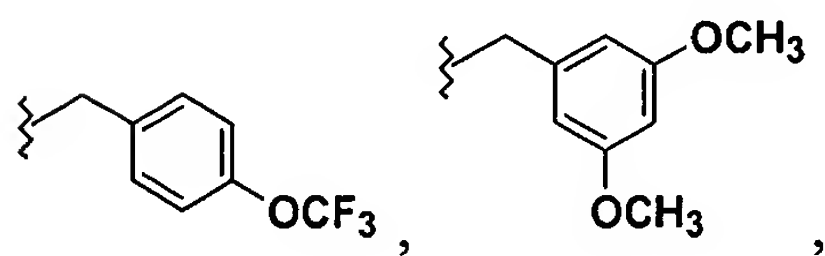
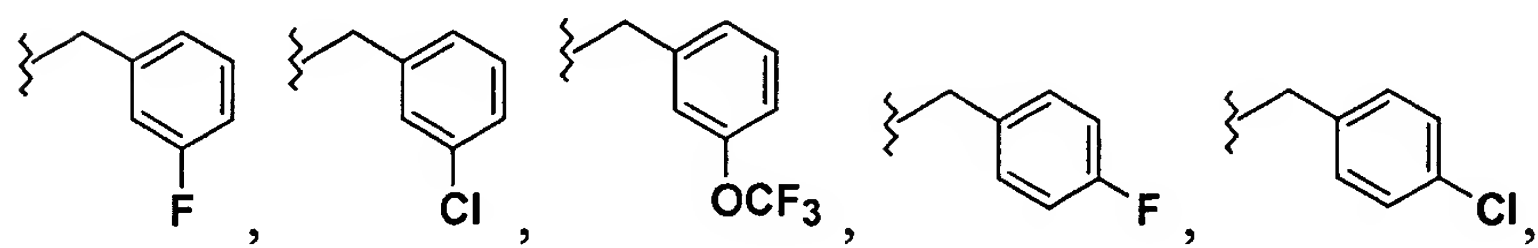
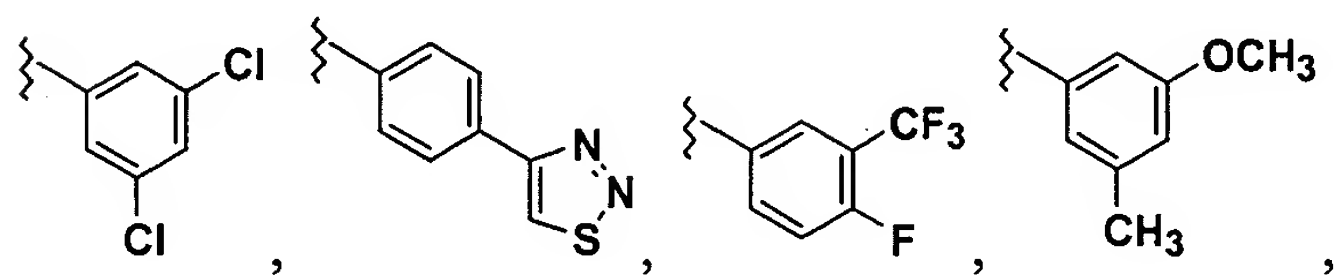
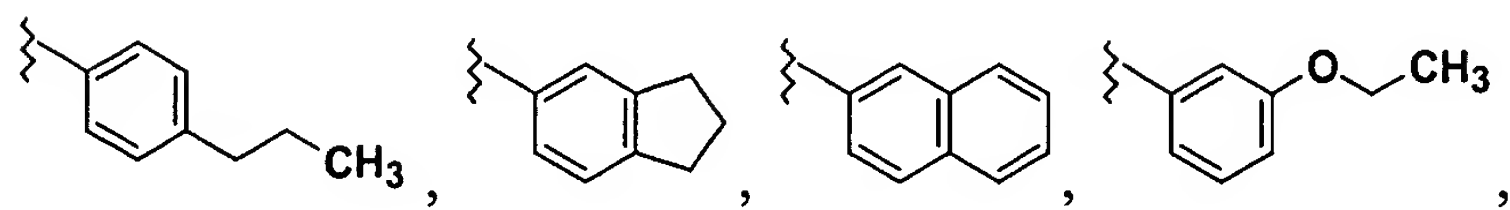
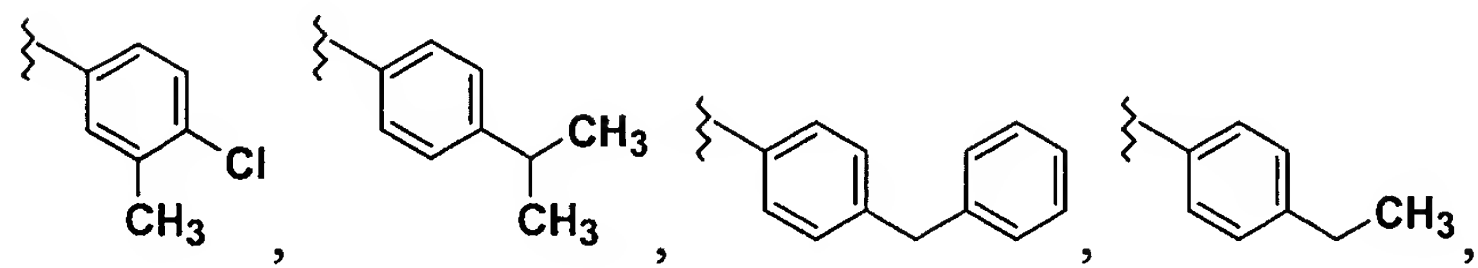
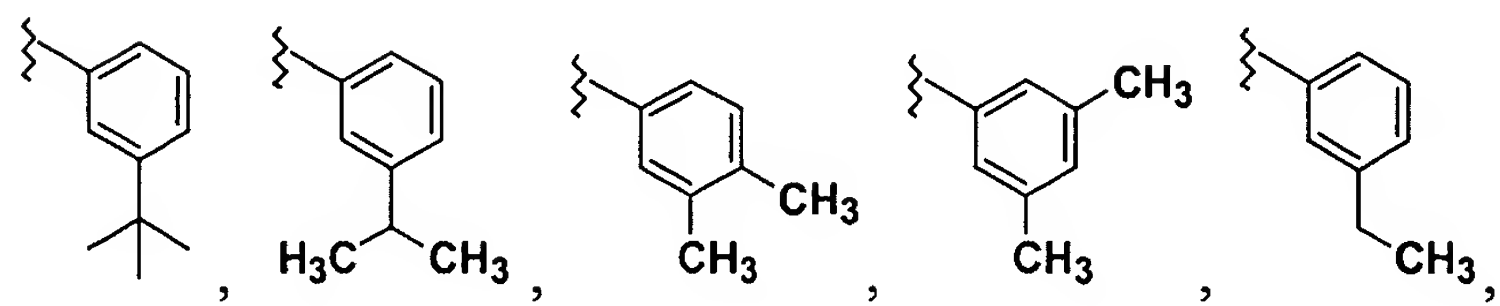
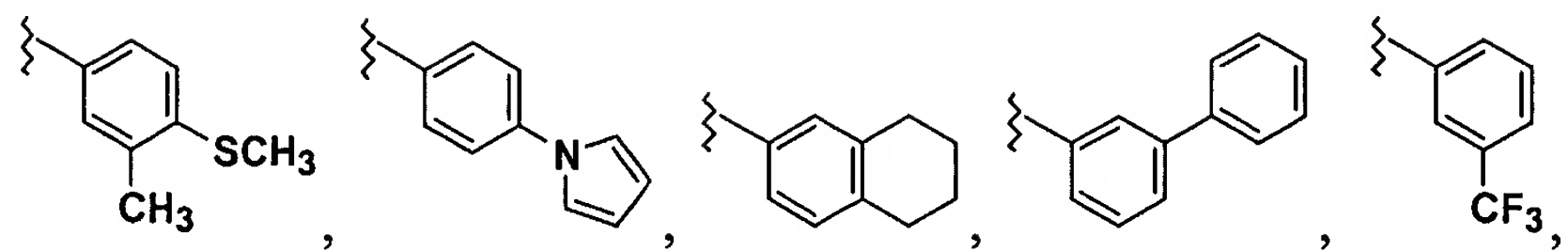
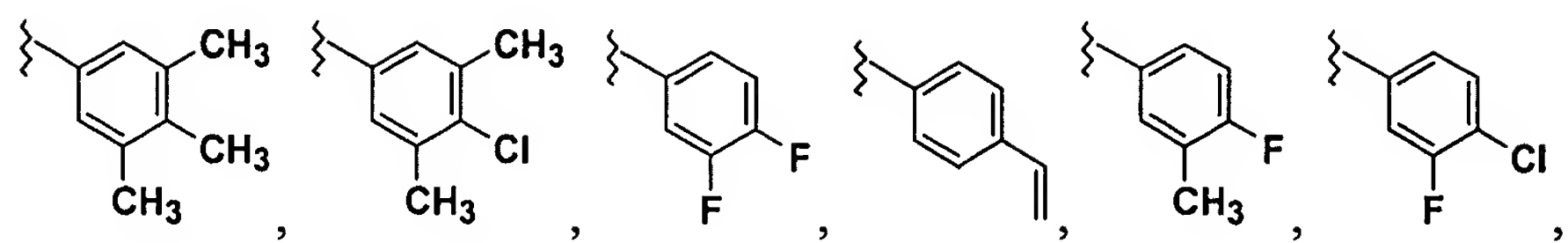




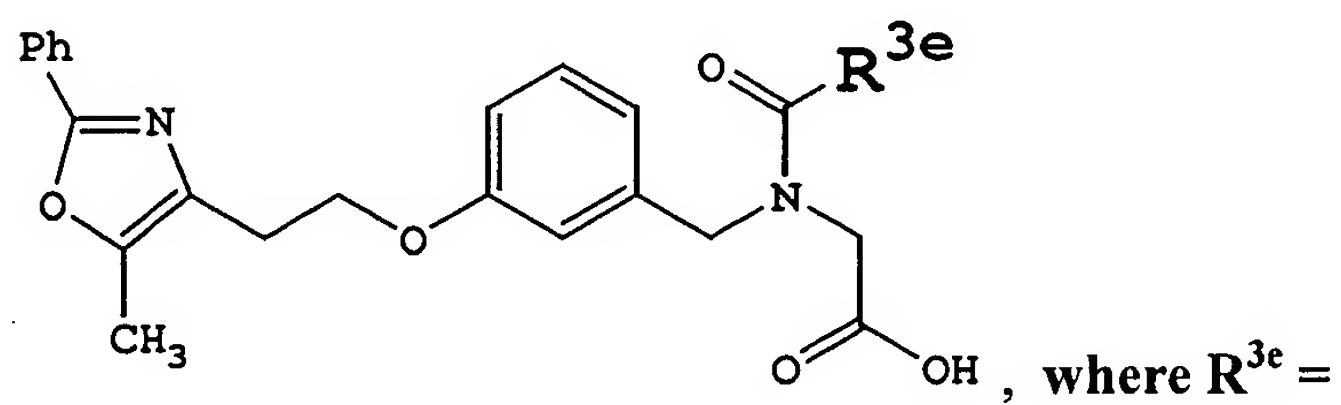
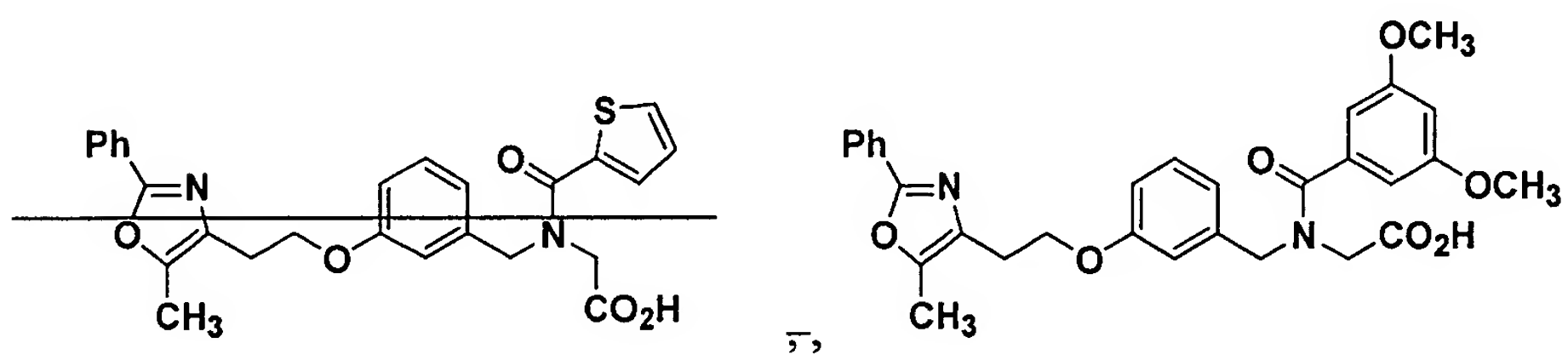
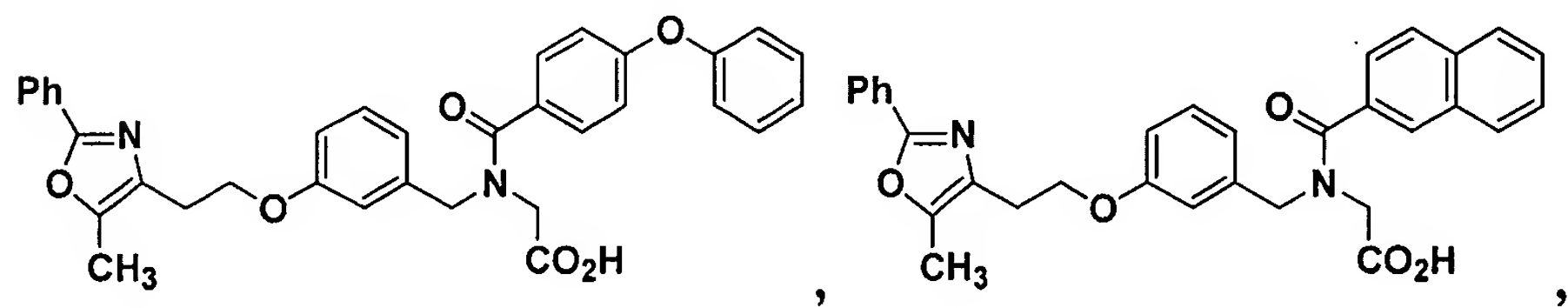
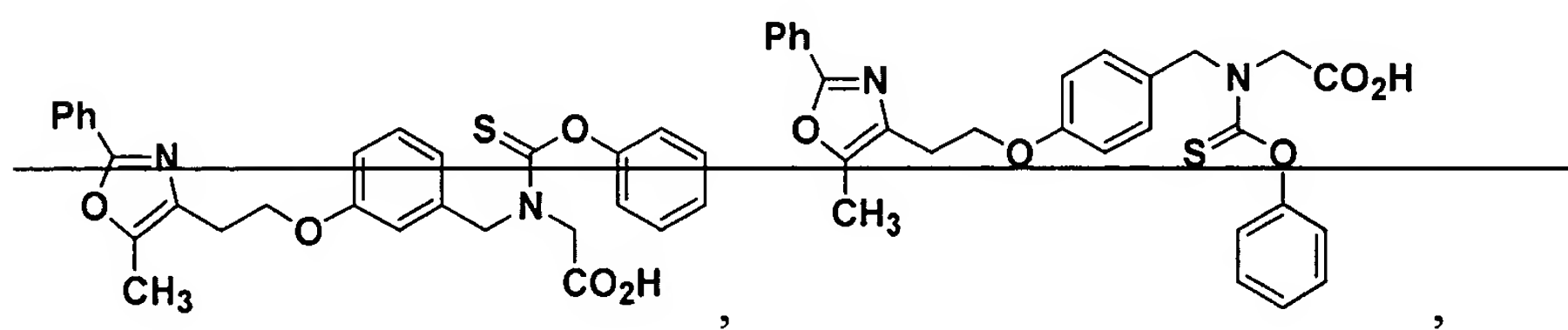
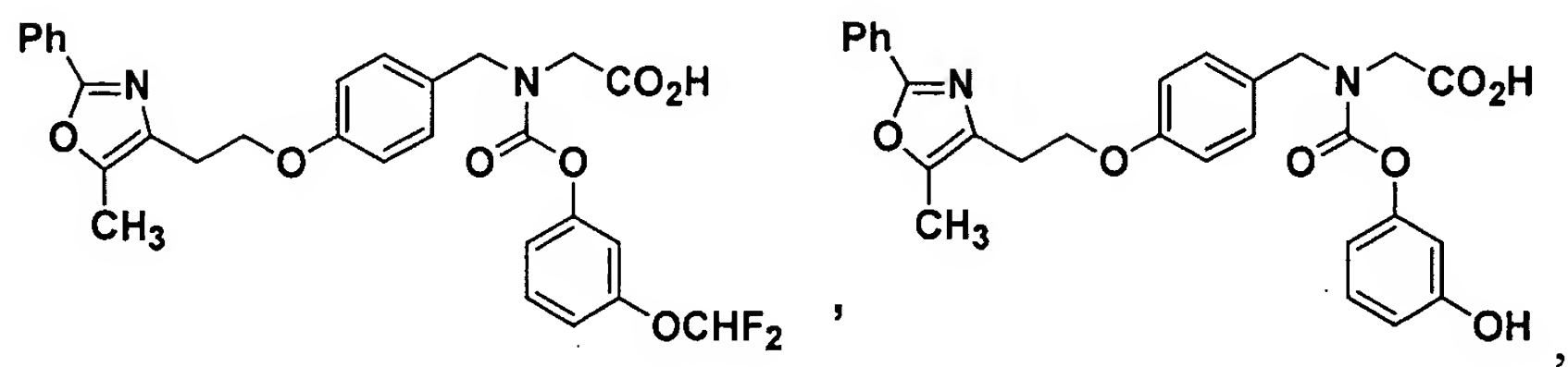
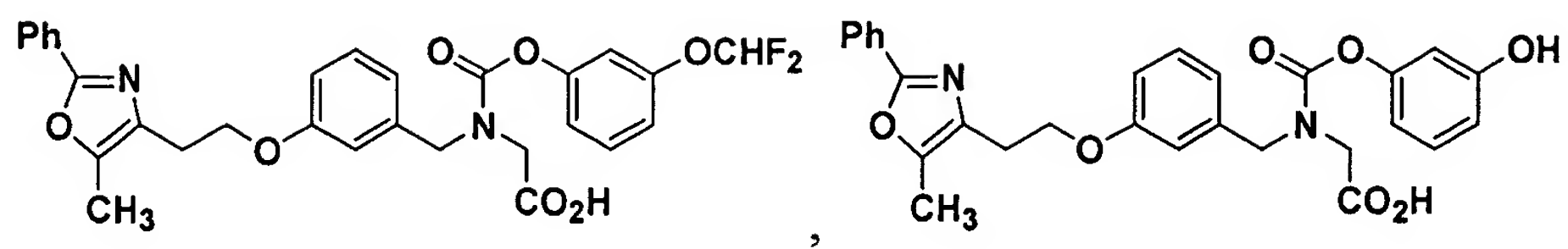


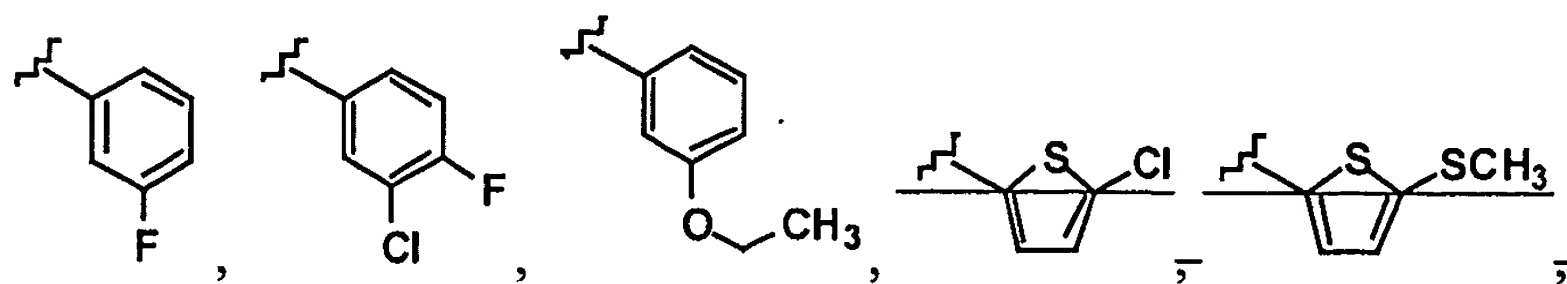
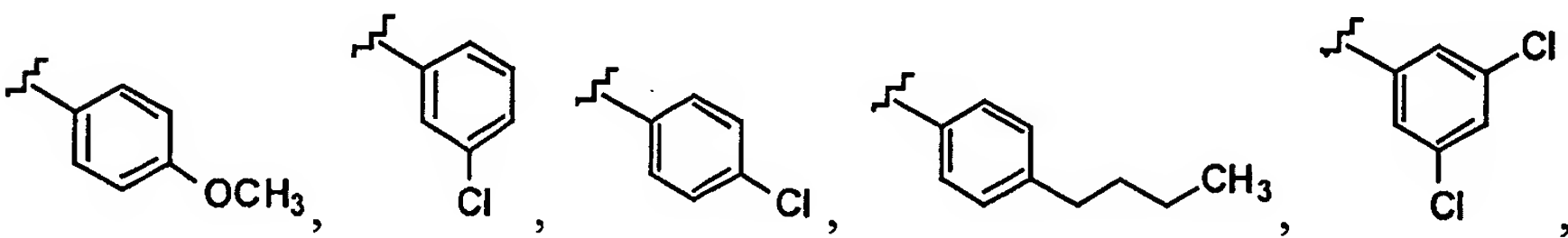
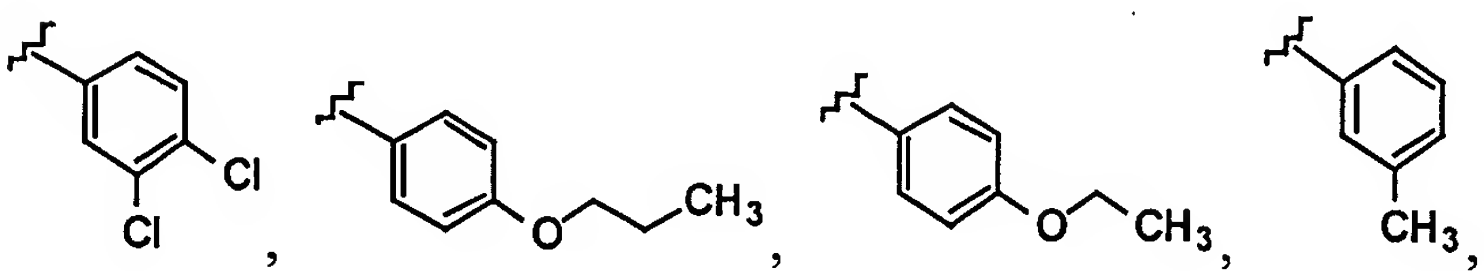
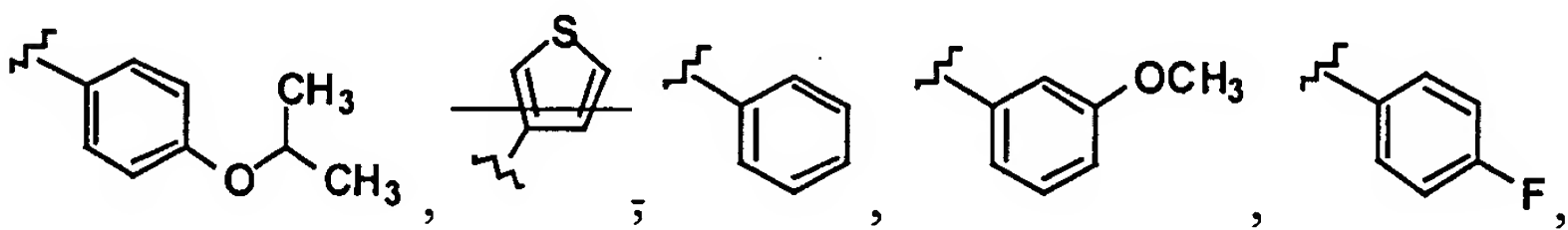
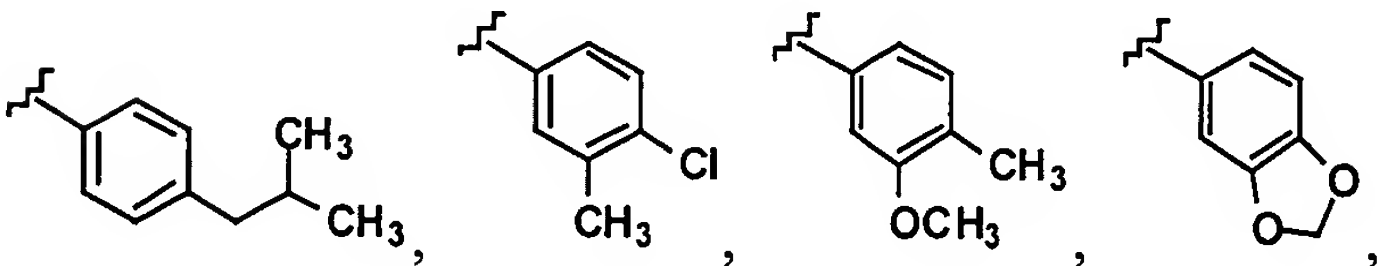
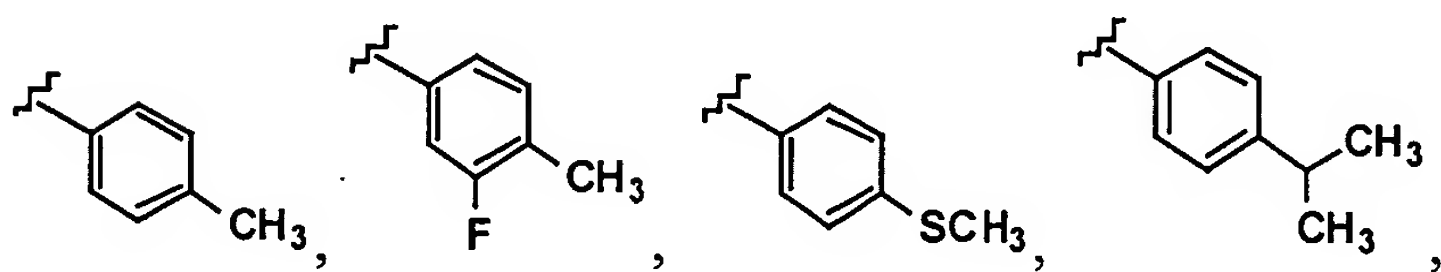
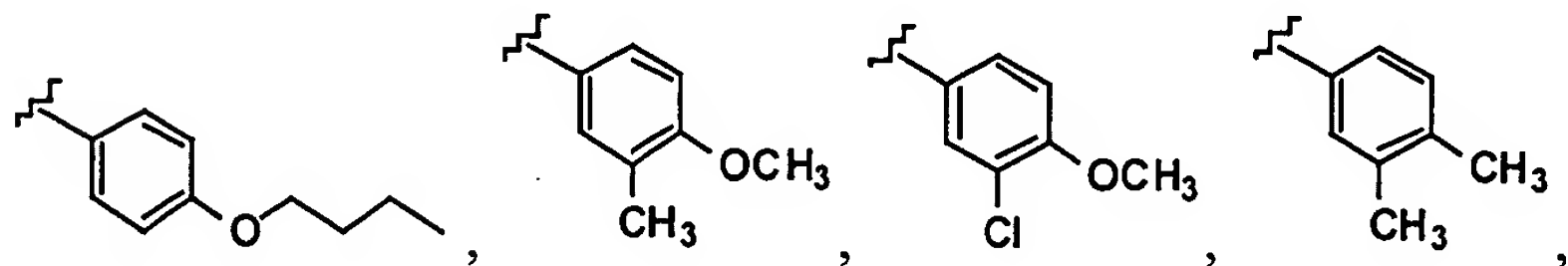
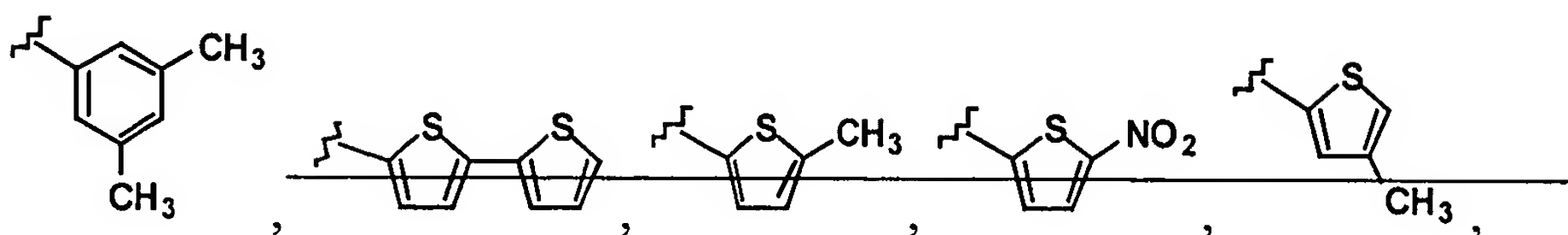
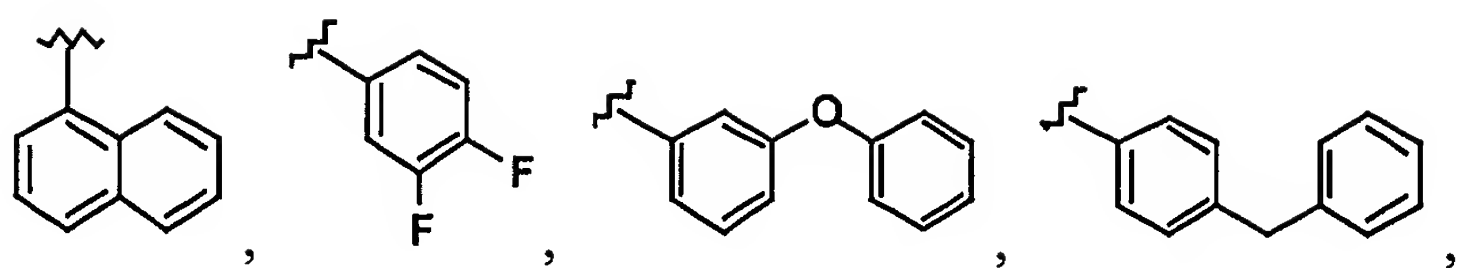


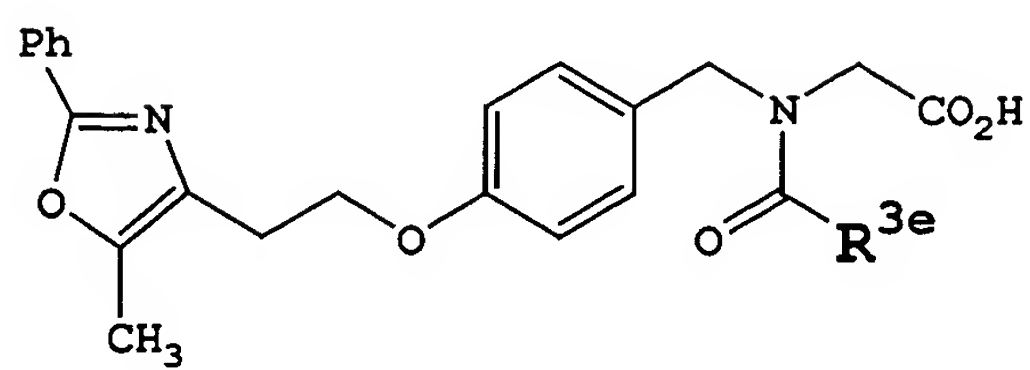
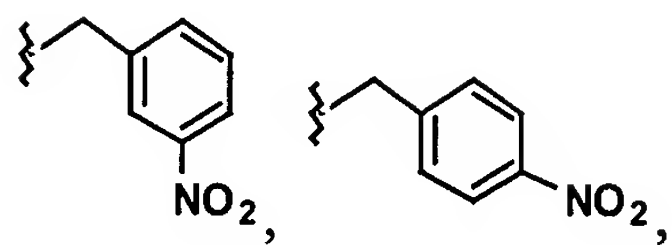
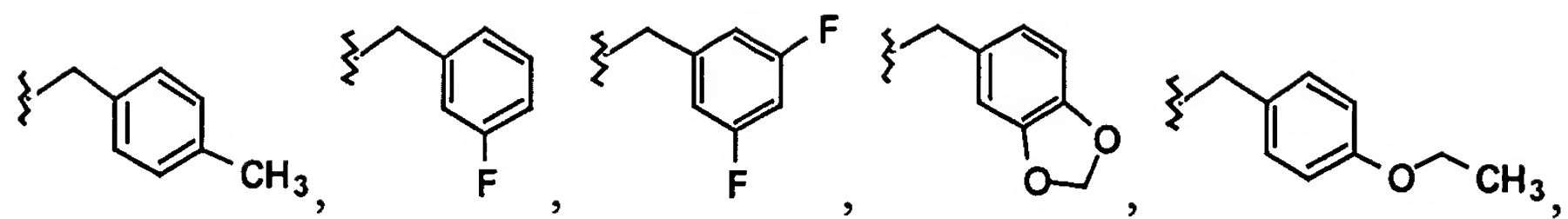




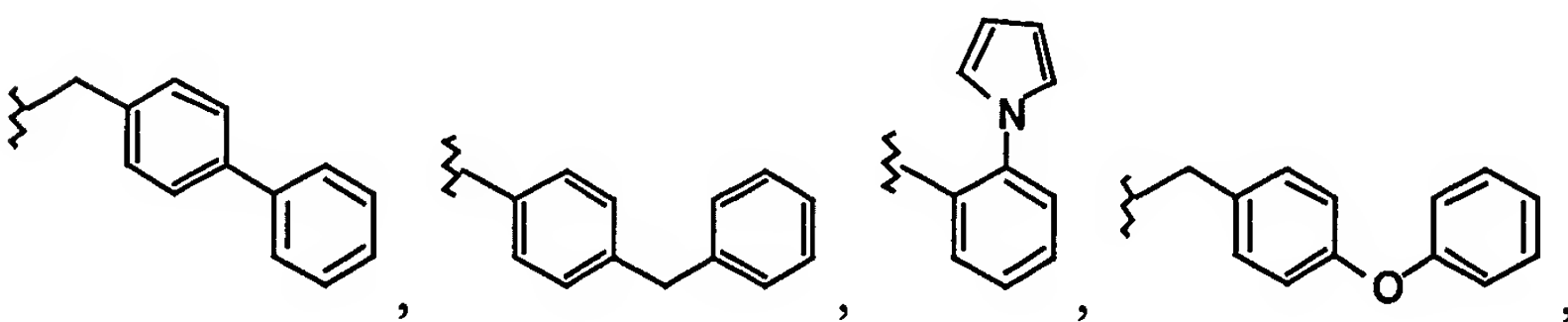
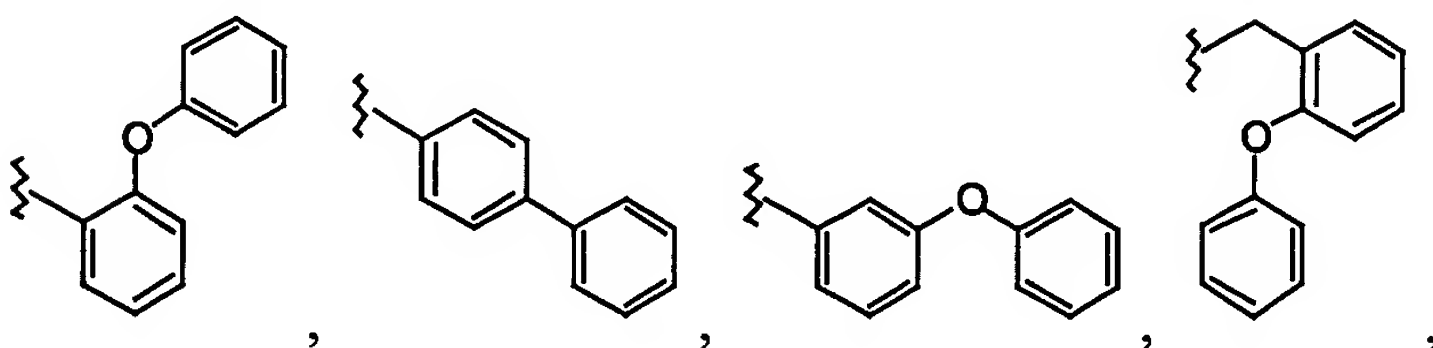
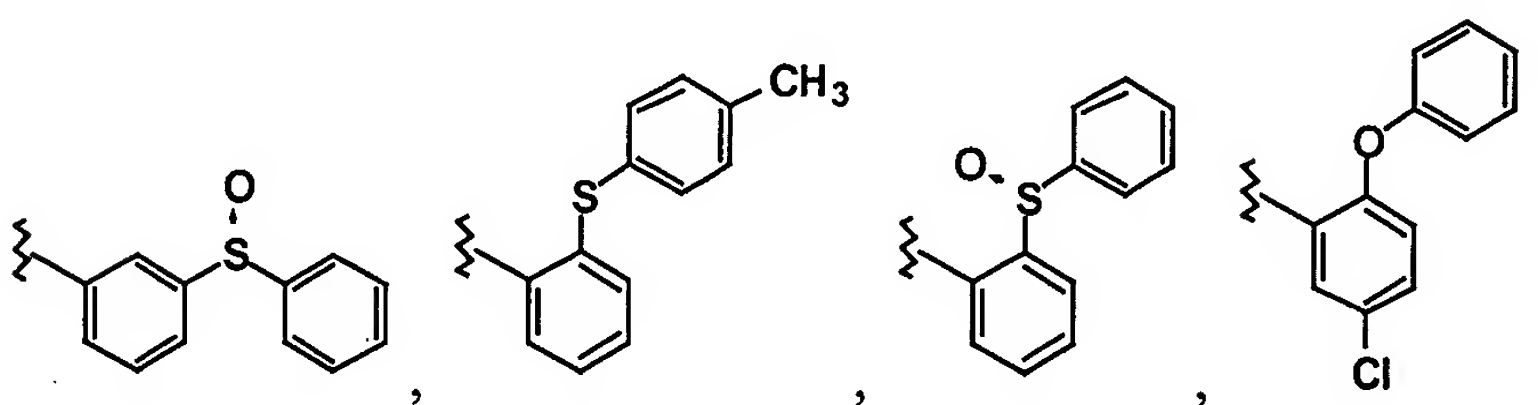
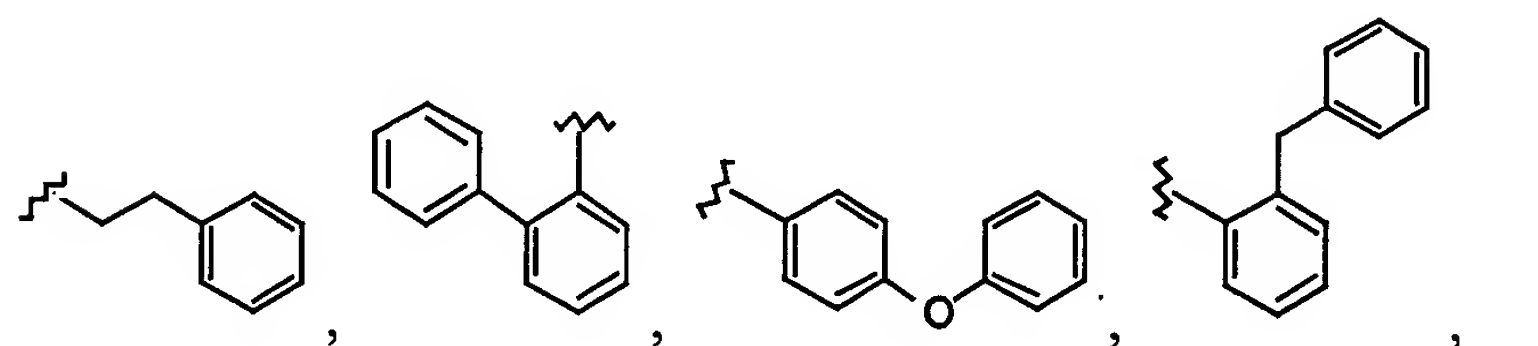


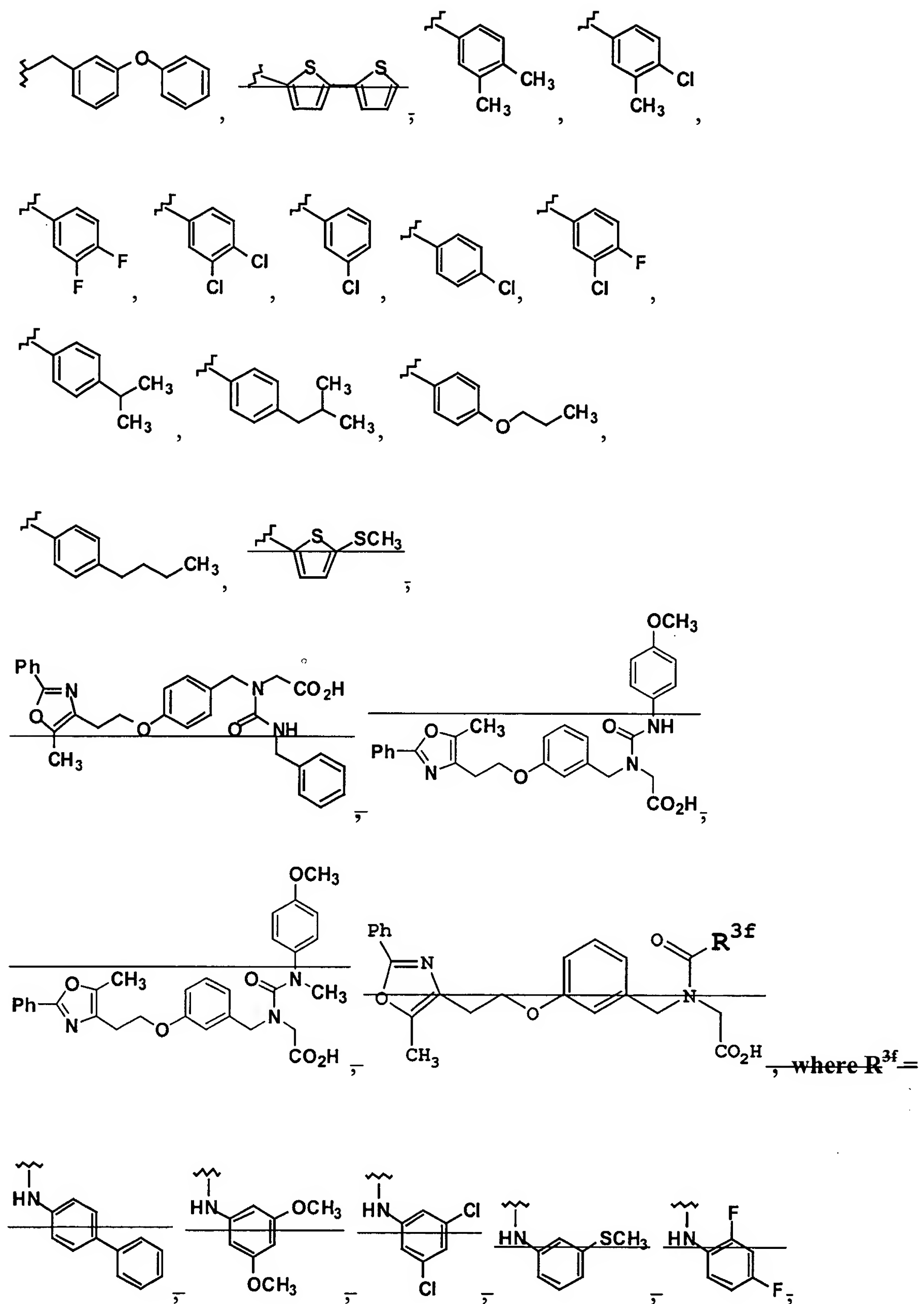


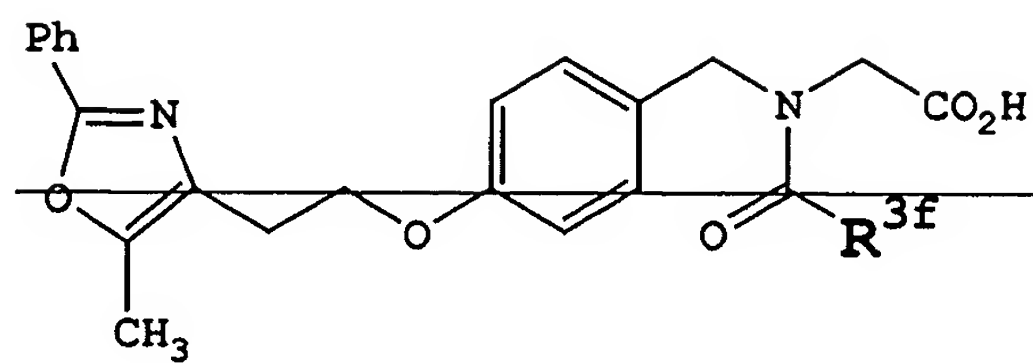
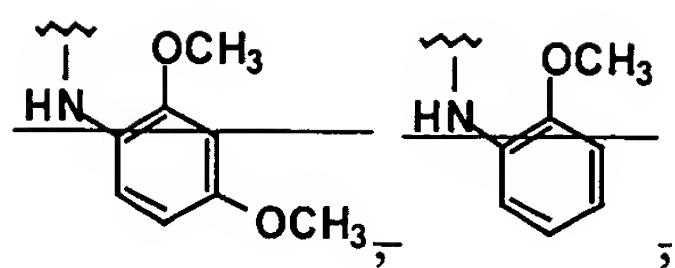




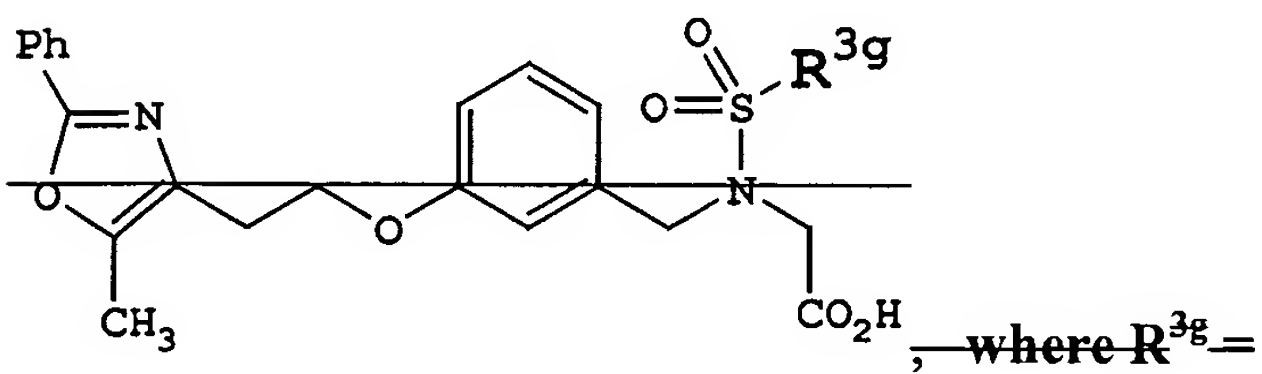
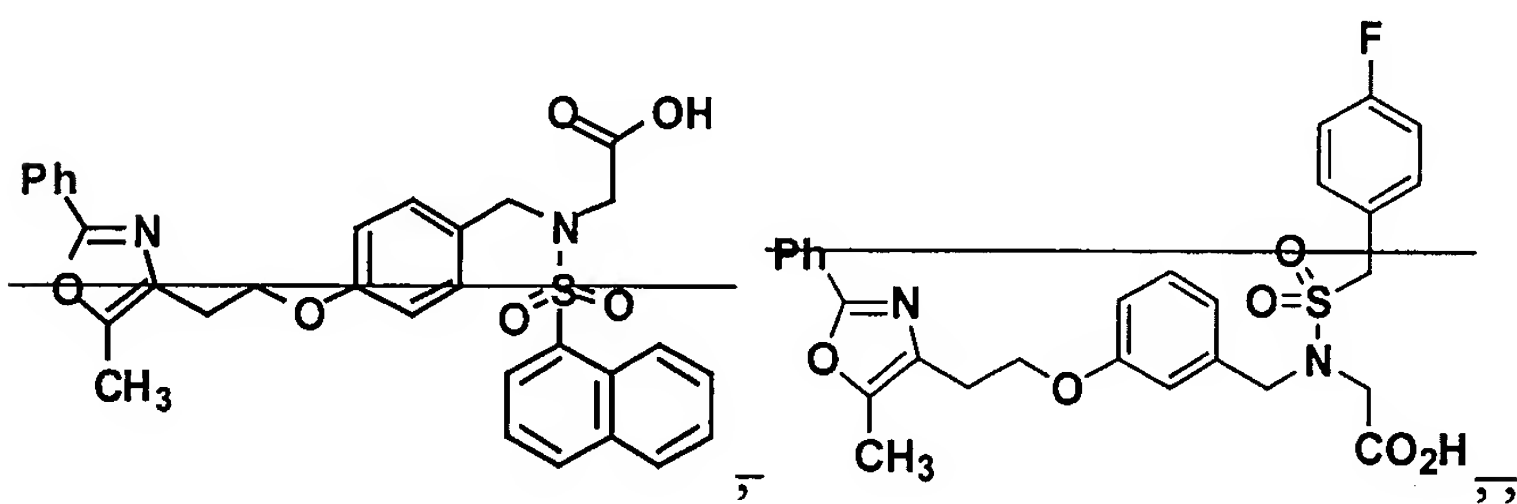
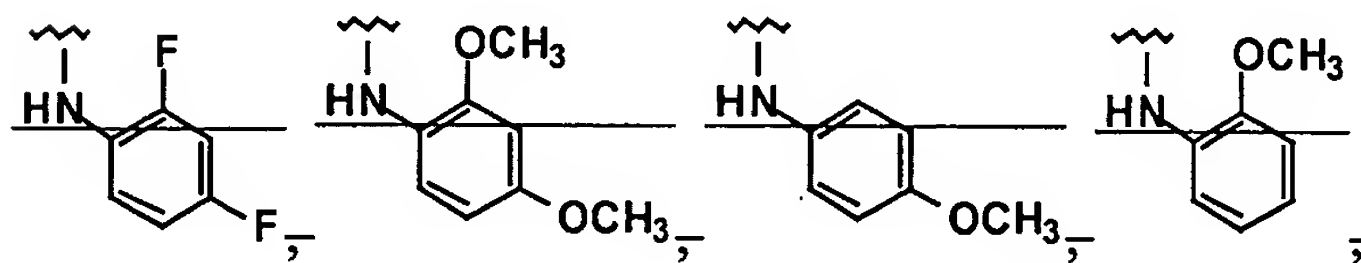
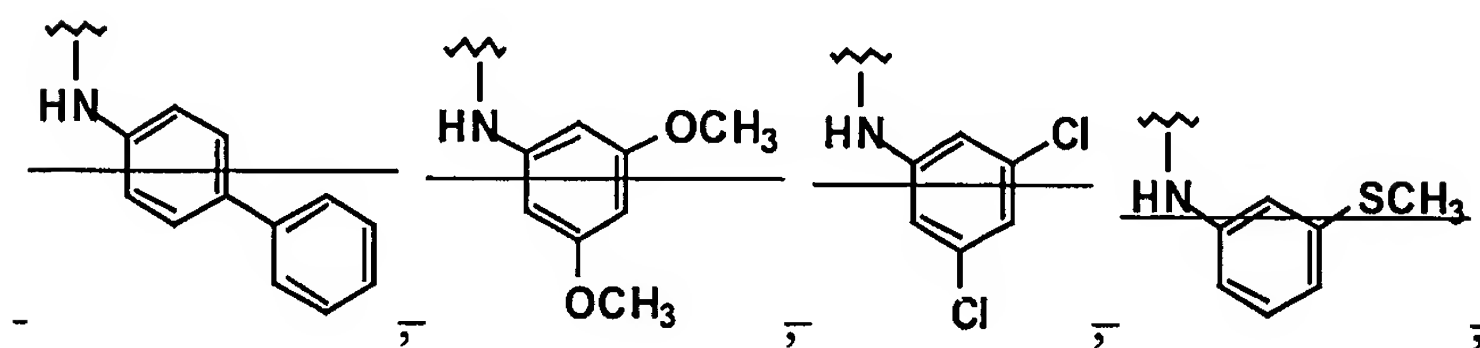
, where  $R^{3e} =$



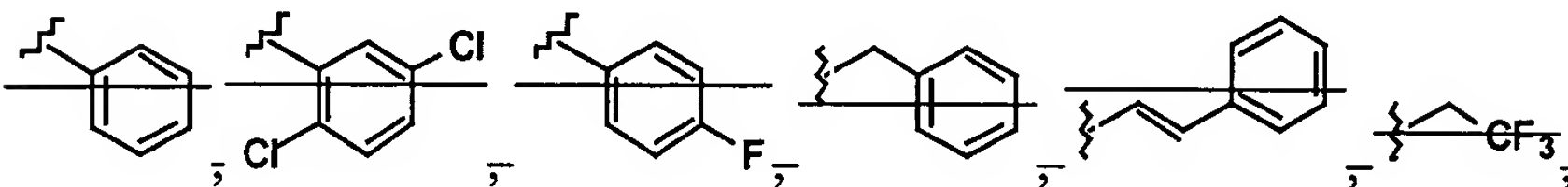




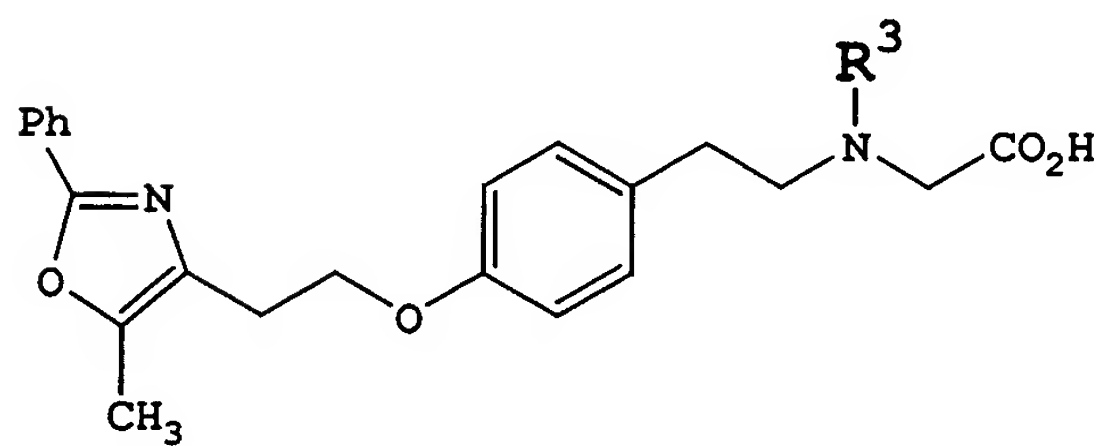
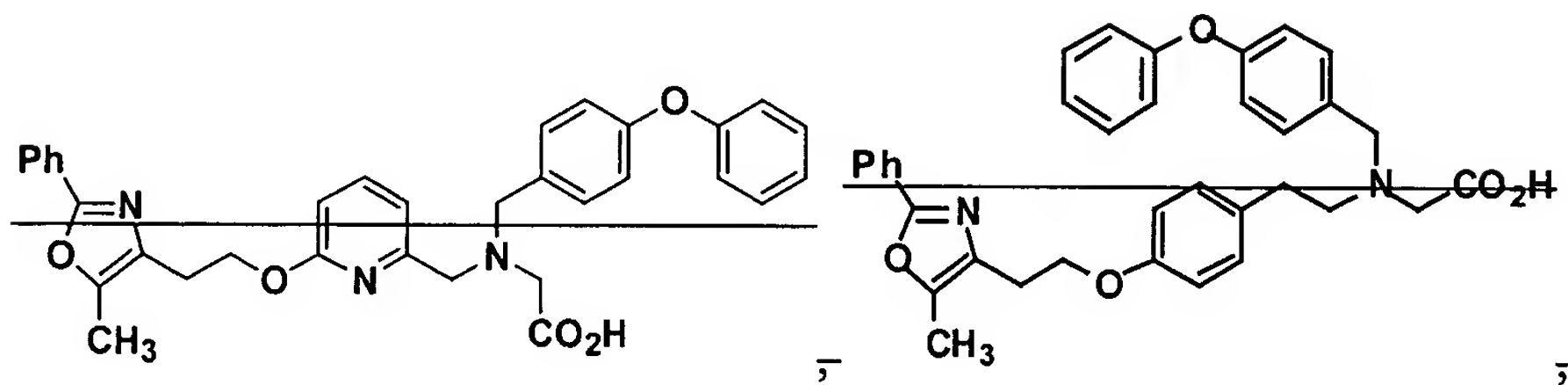
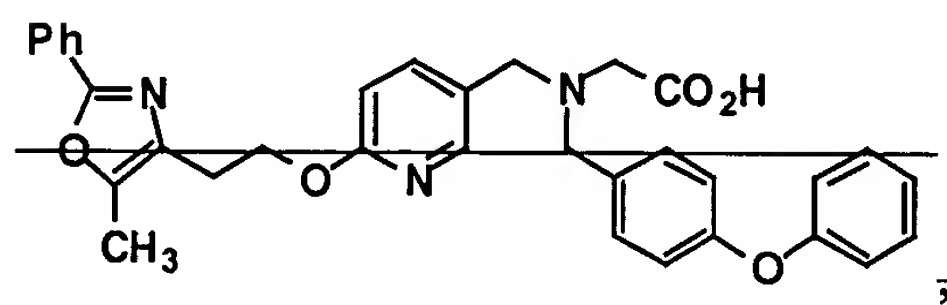
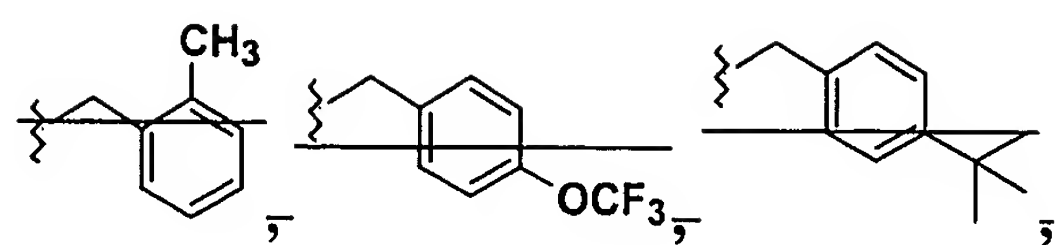
, where  $R^{3f} =$



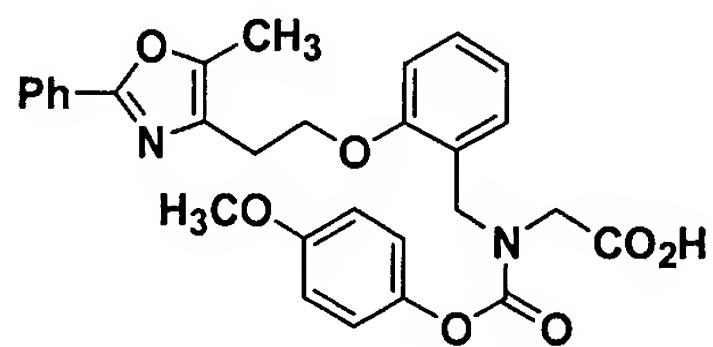
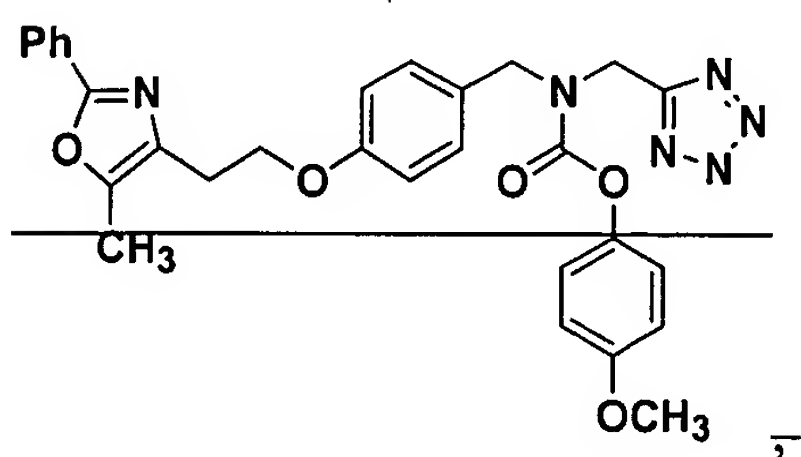
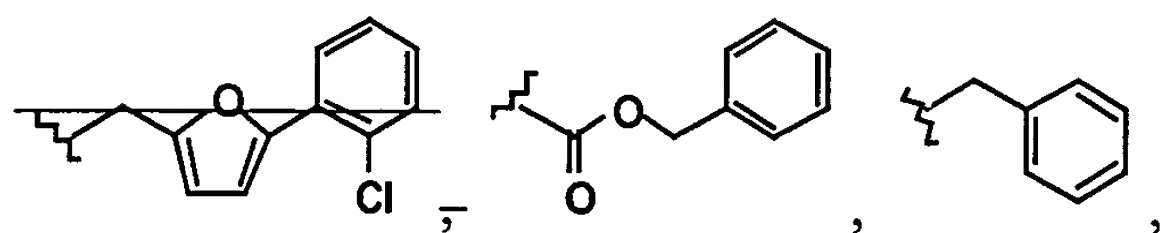
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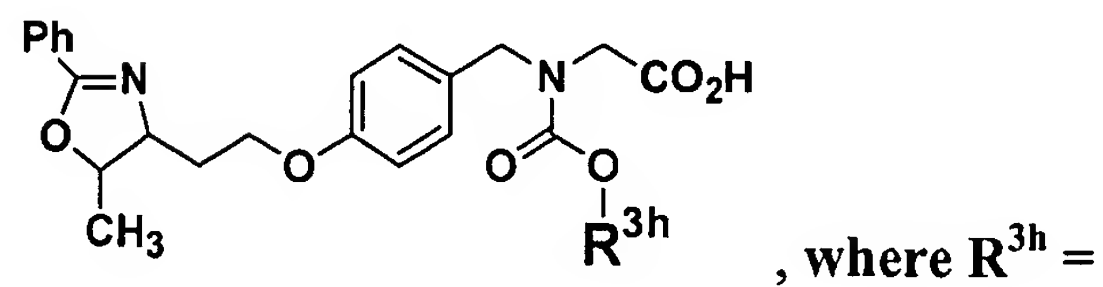
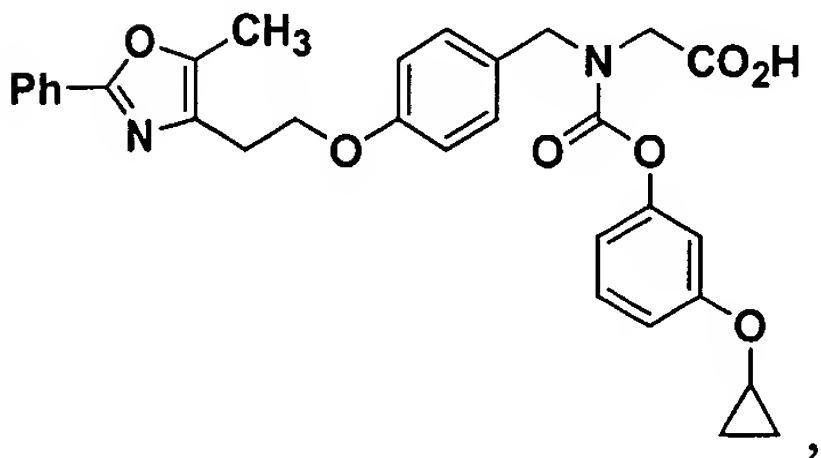
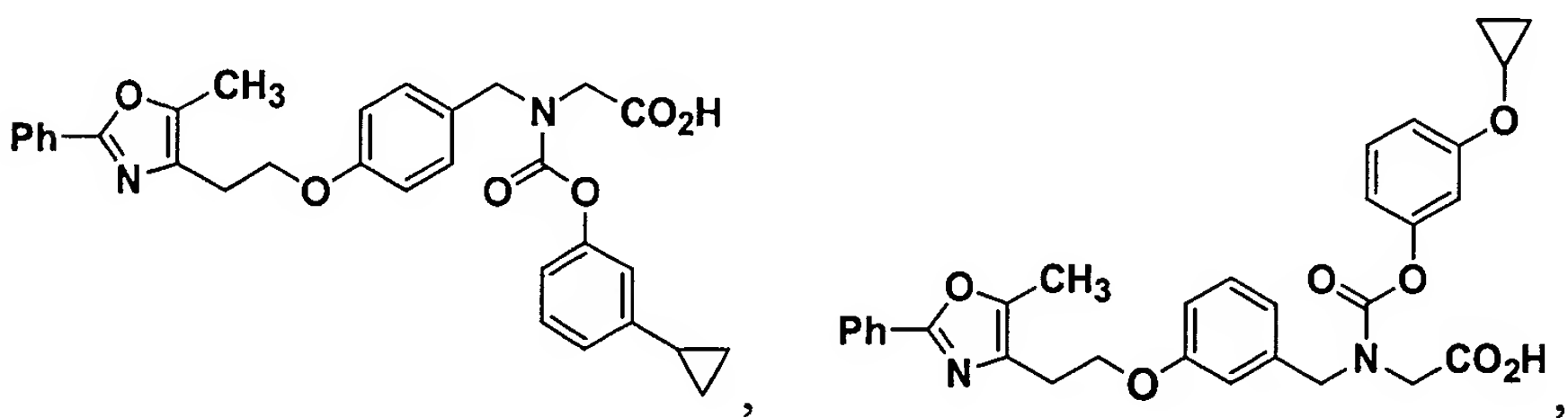
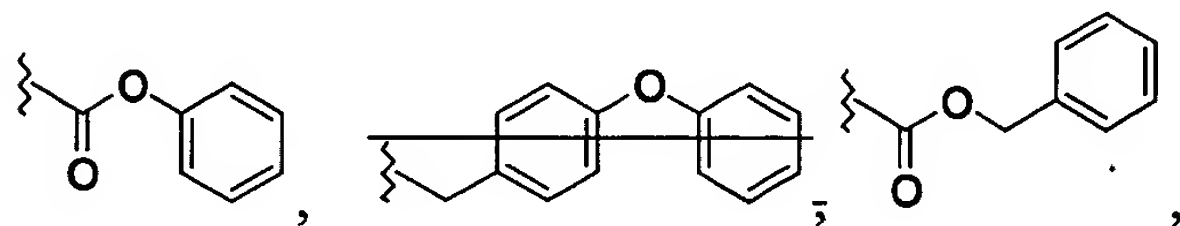
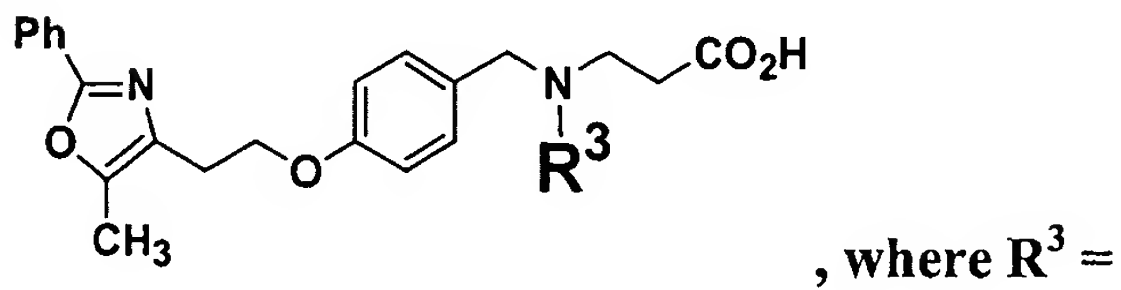
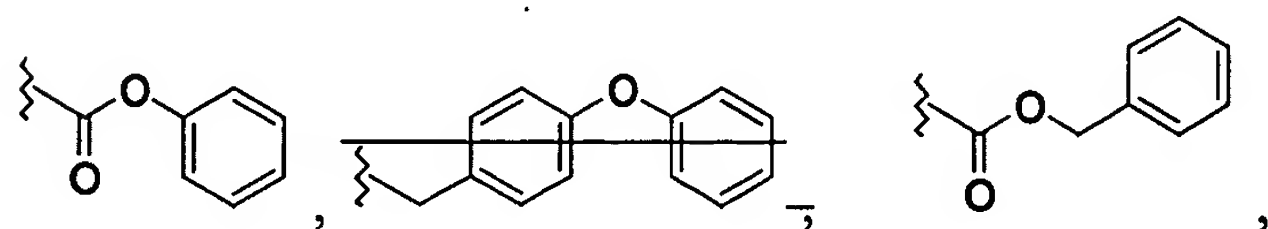
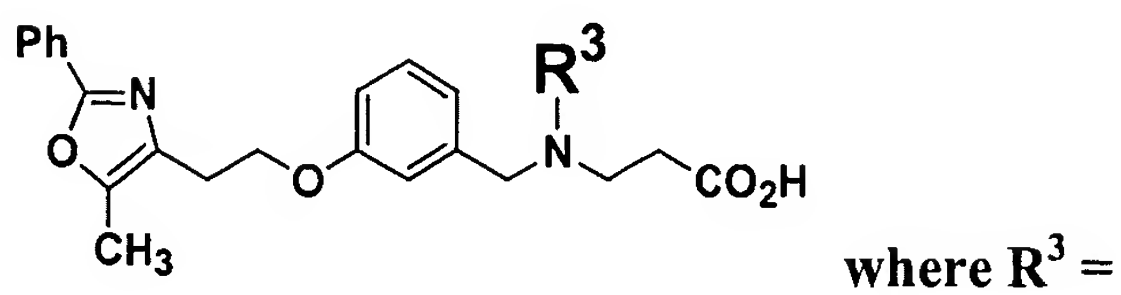
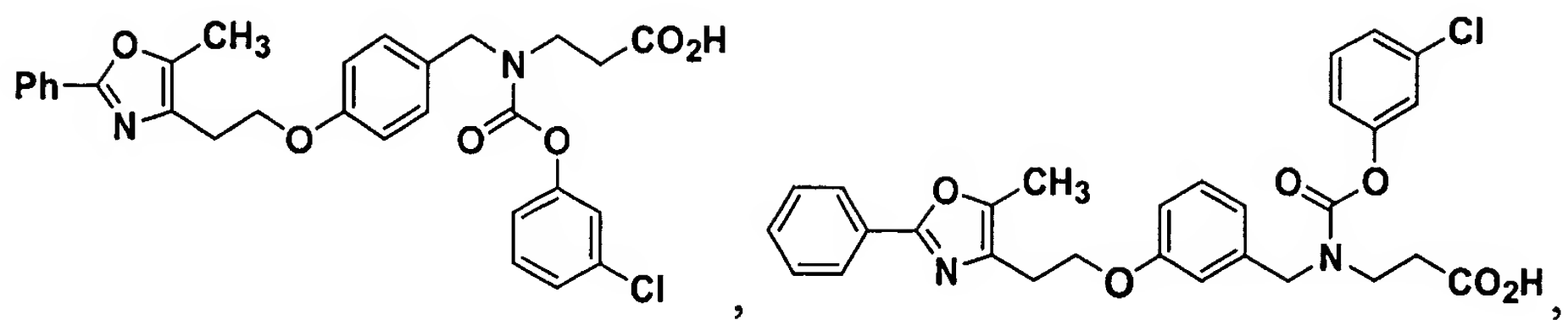




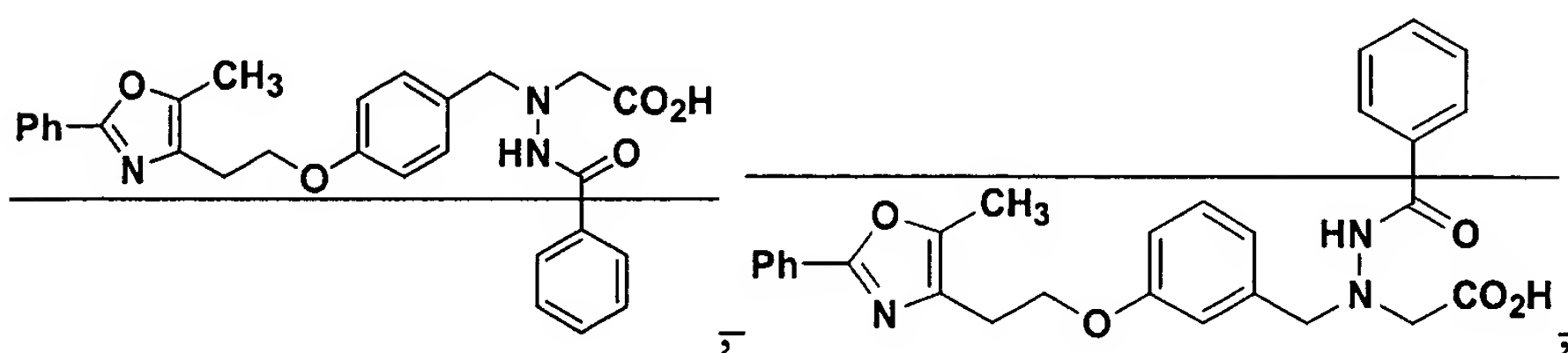
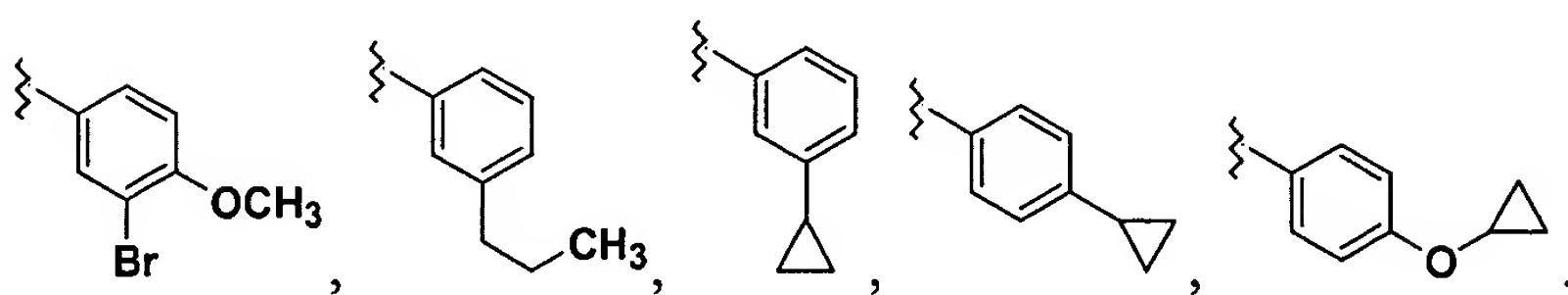
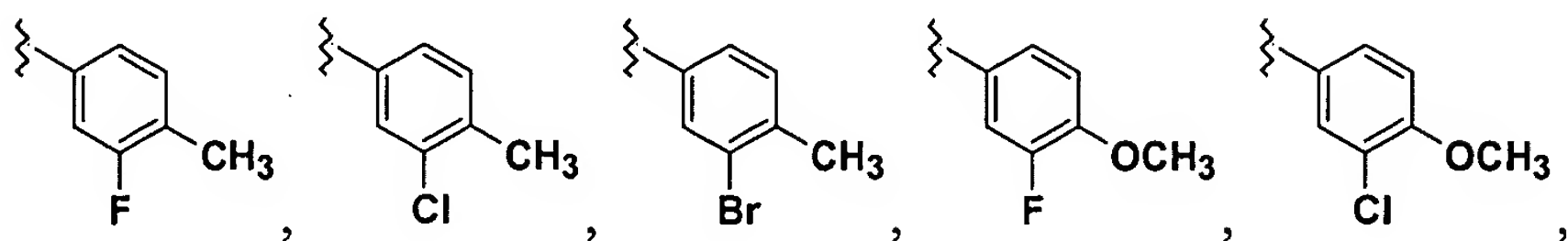
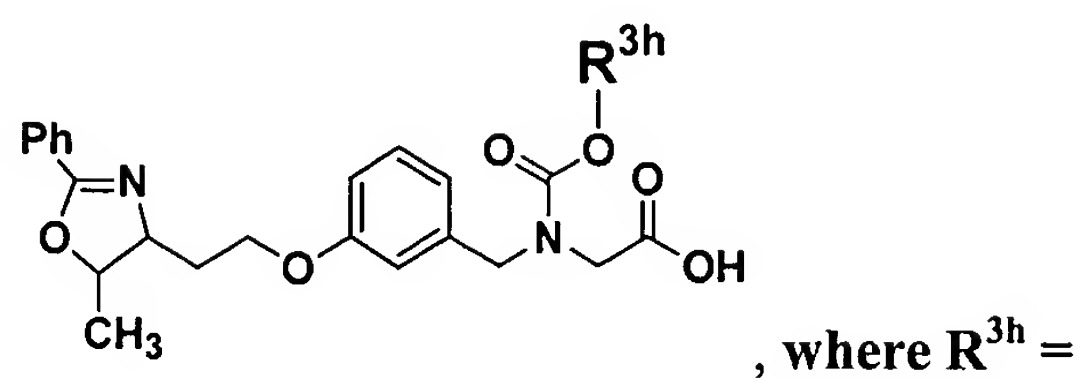
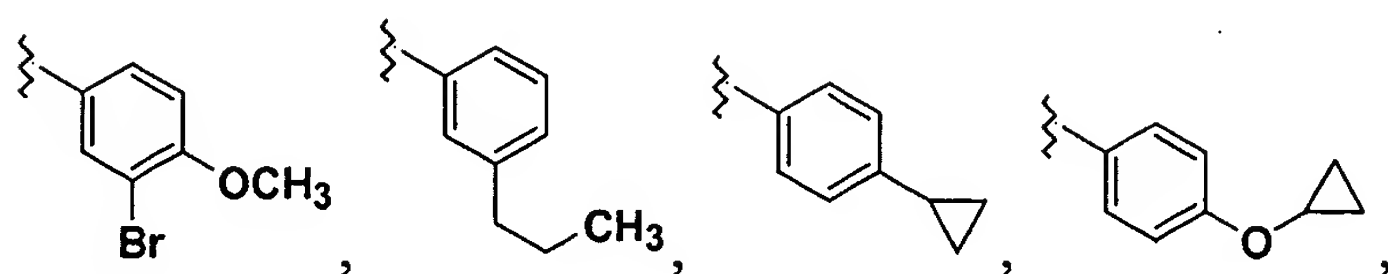
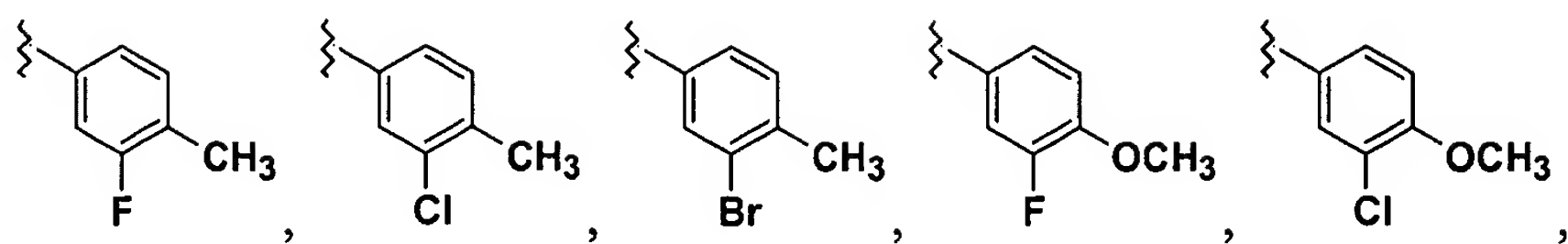


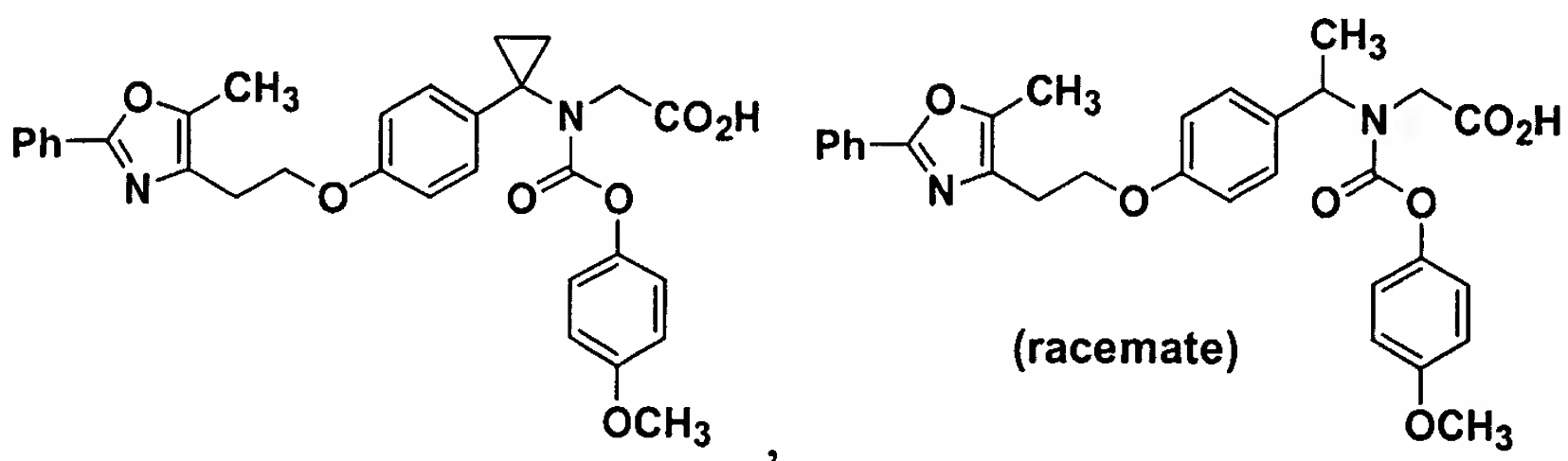
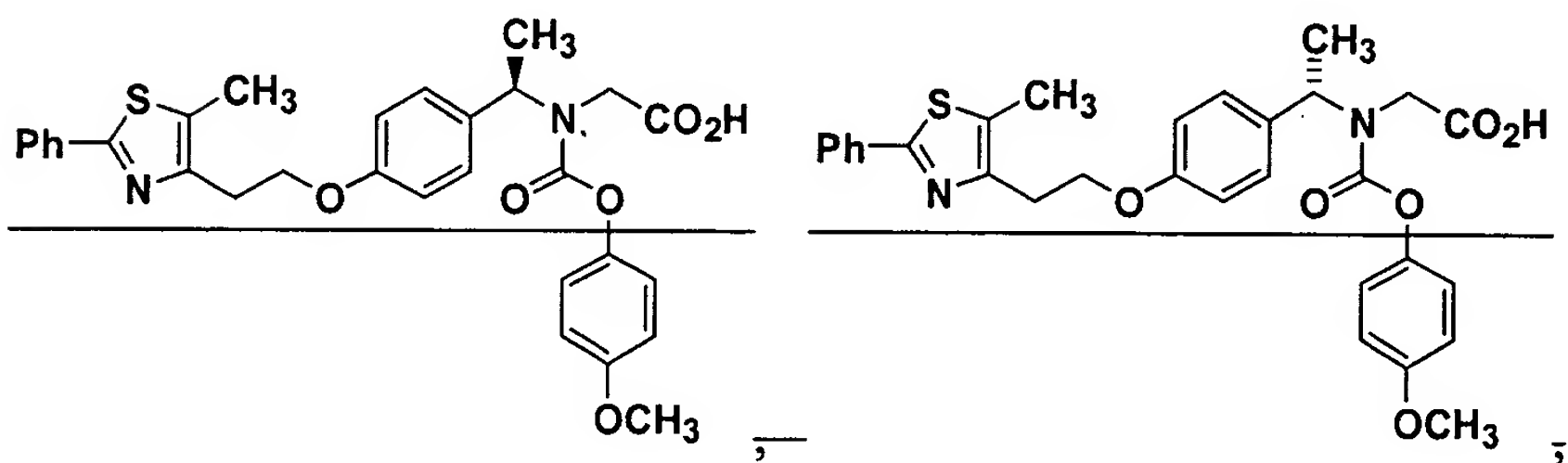
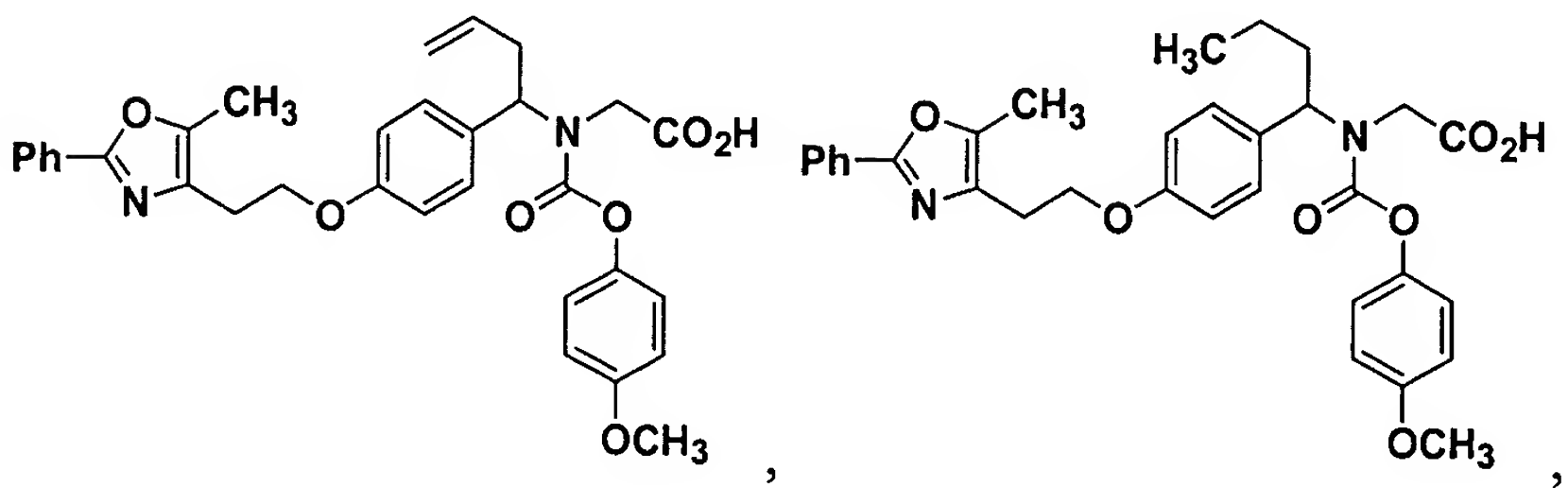
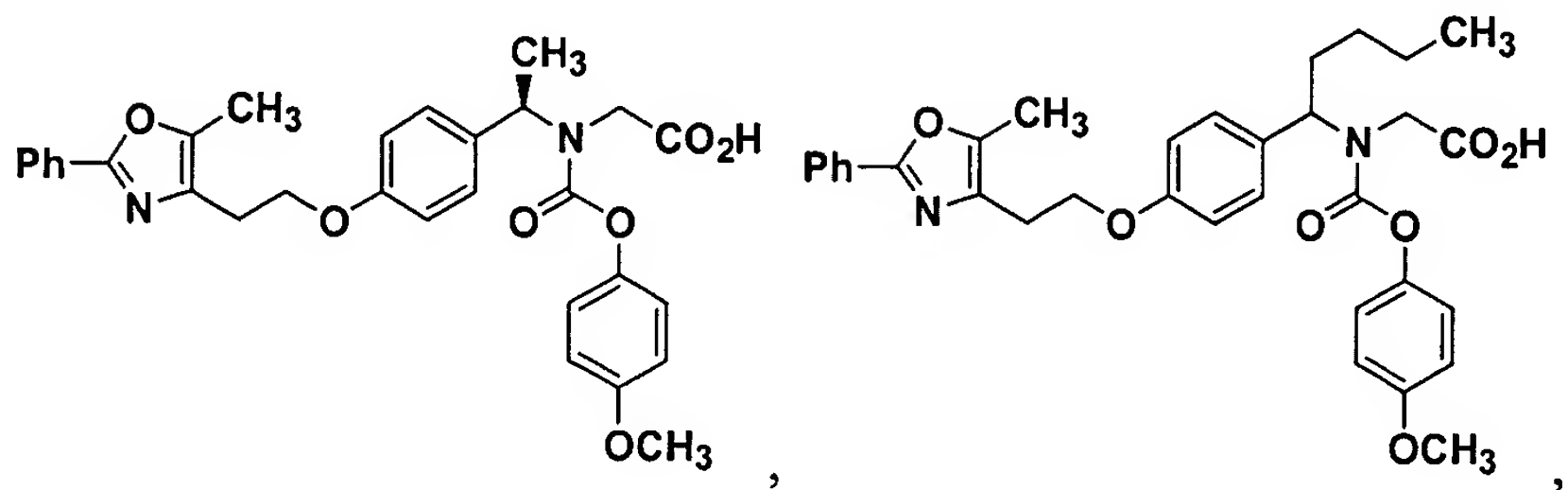
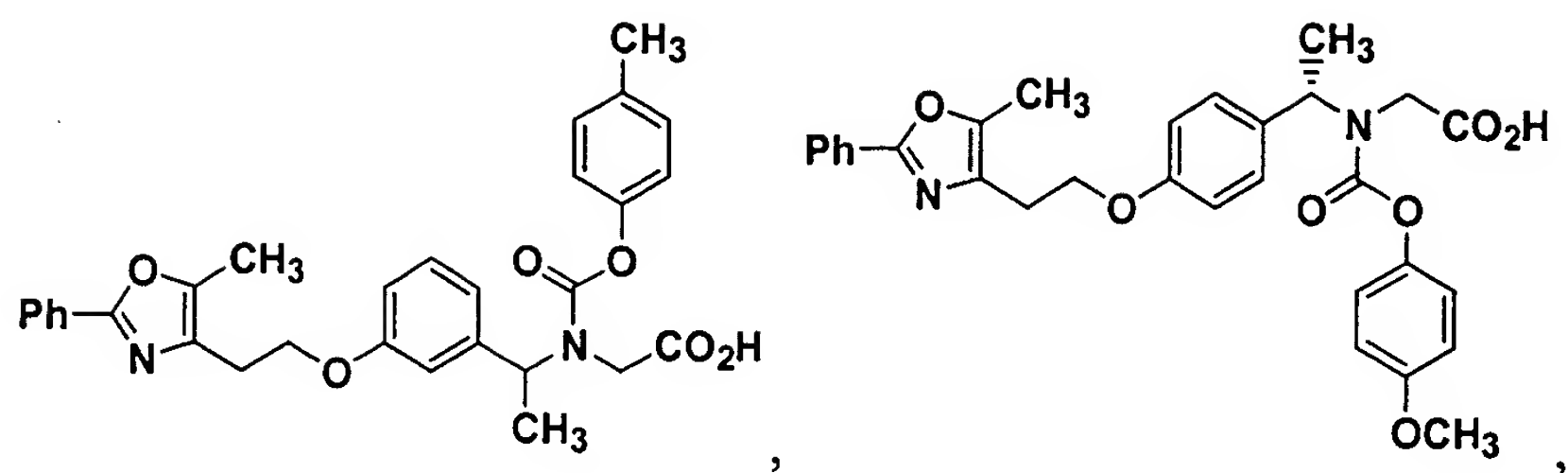
, where  $R^3 =$

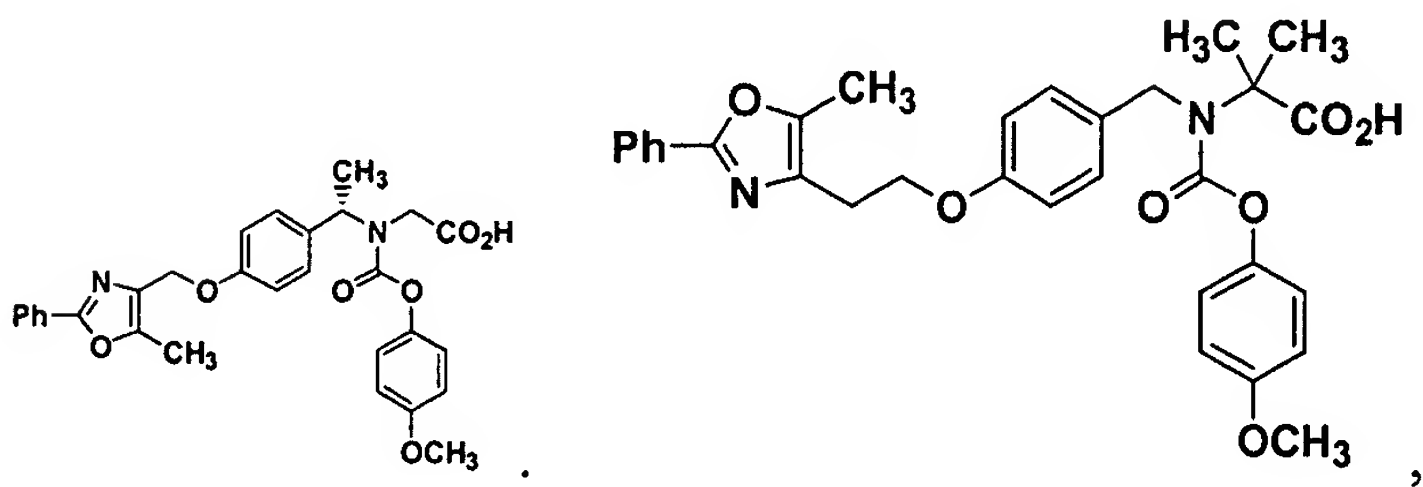
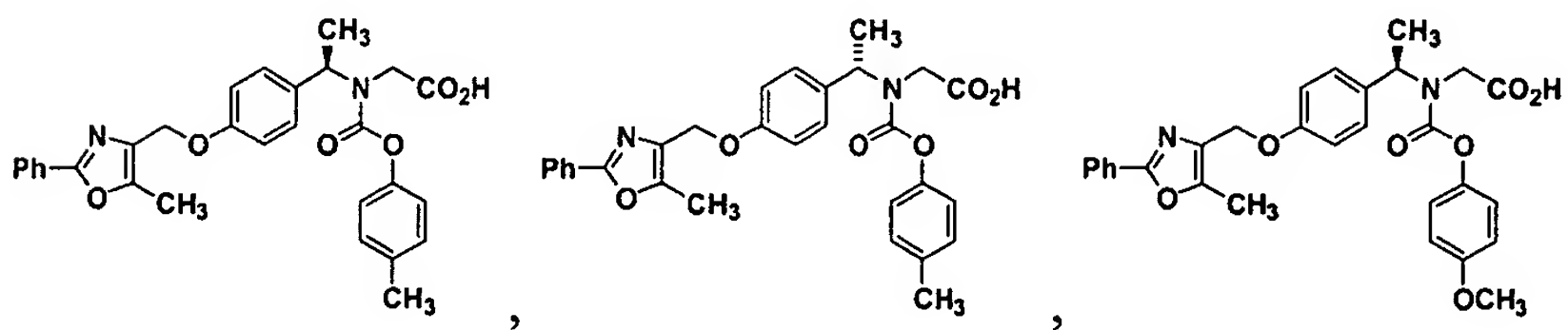
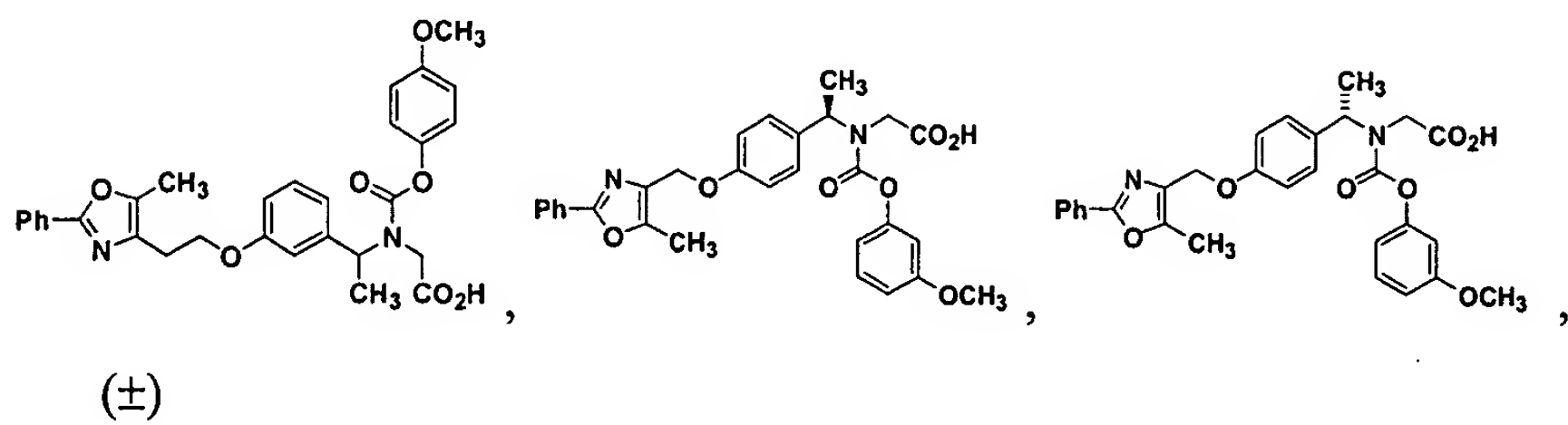
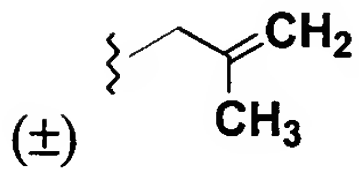
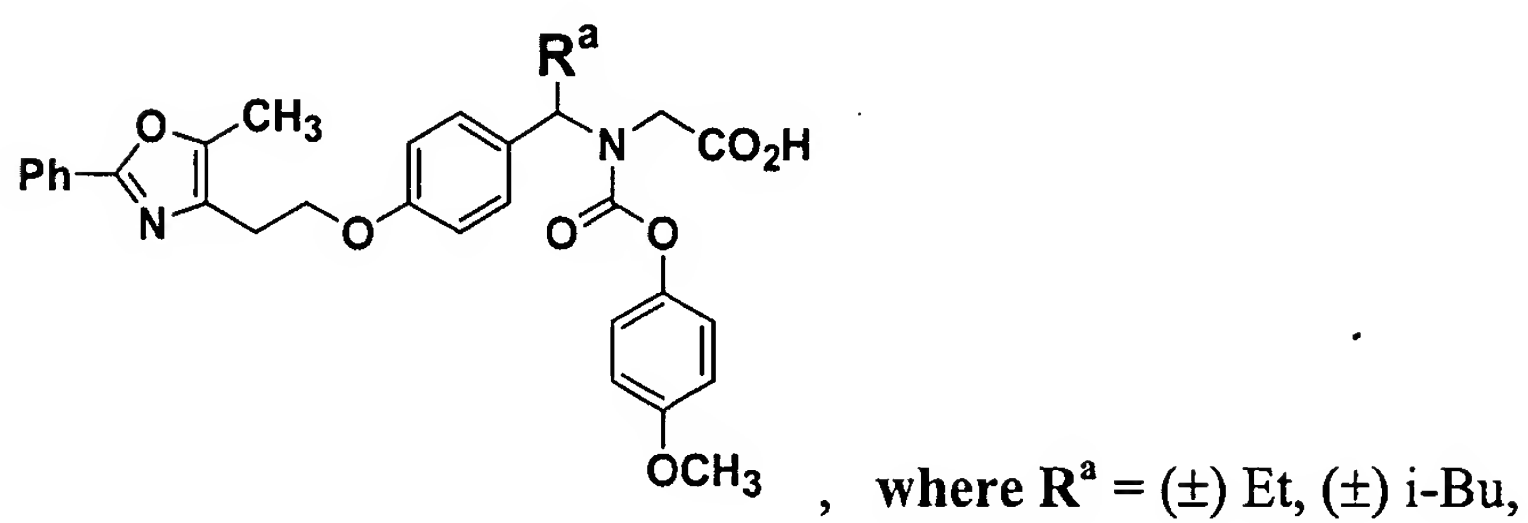
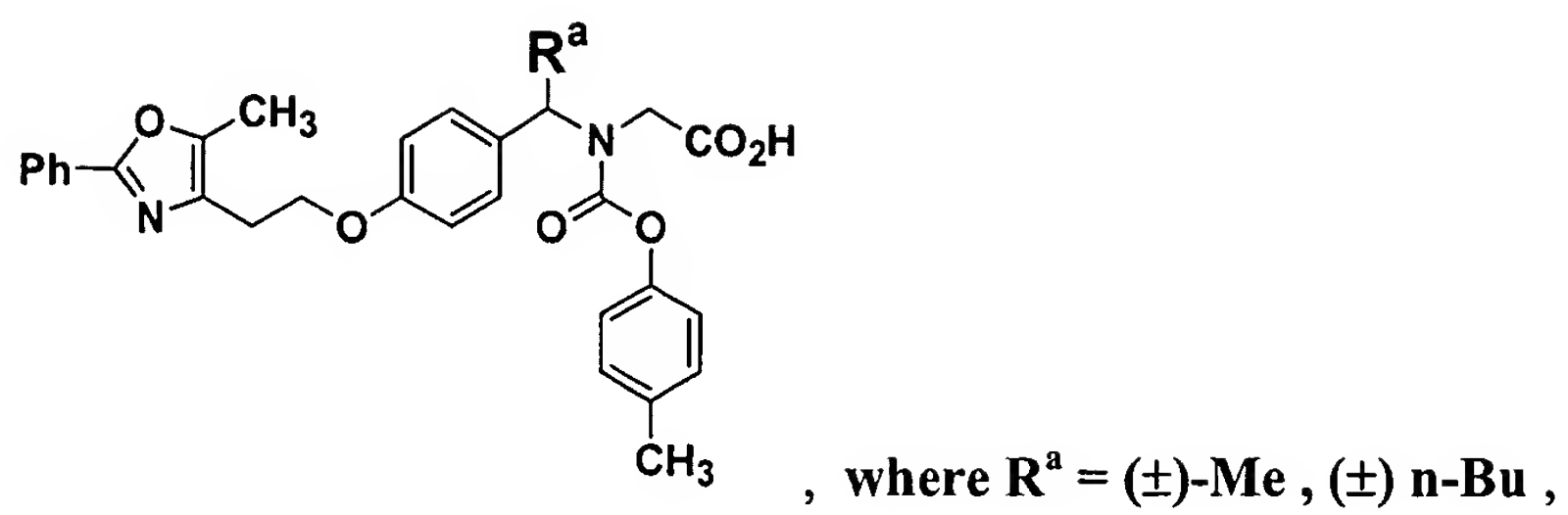


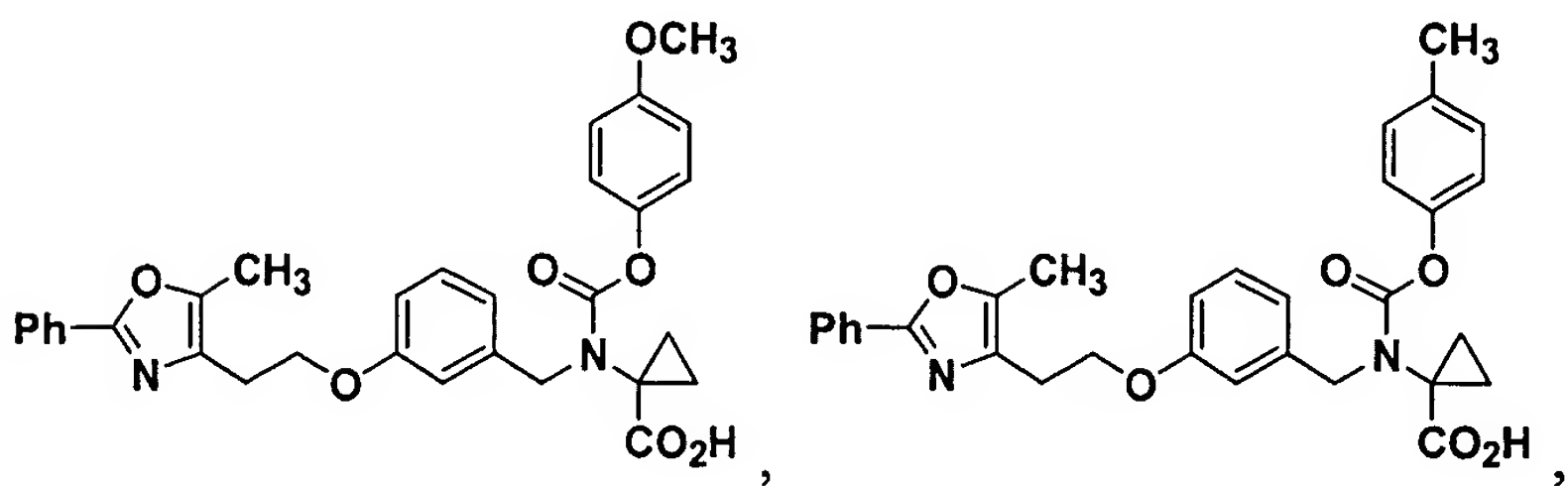
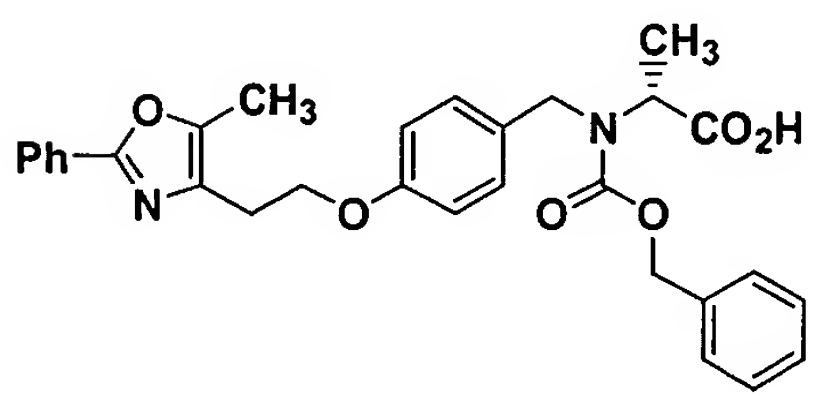
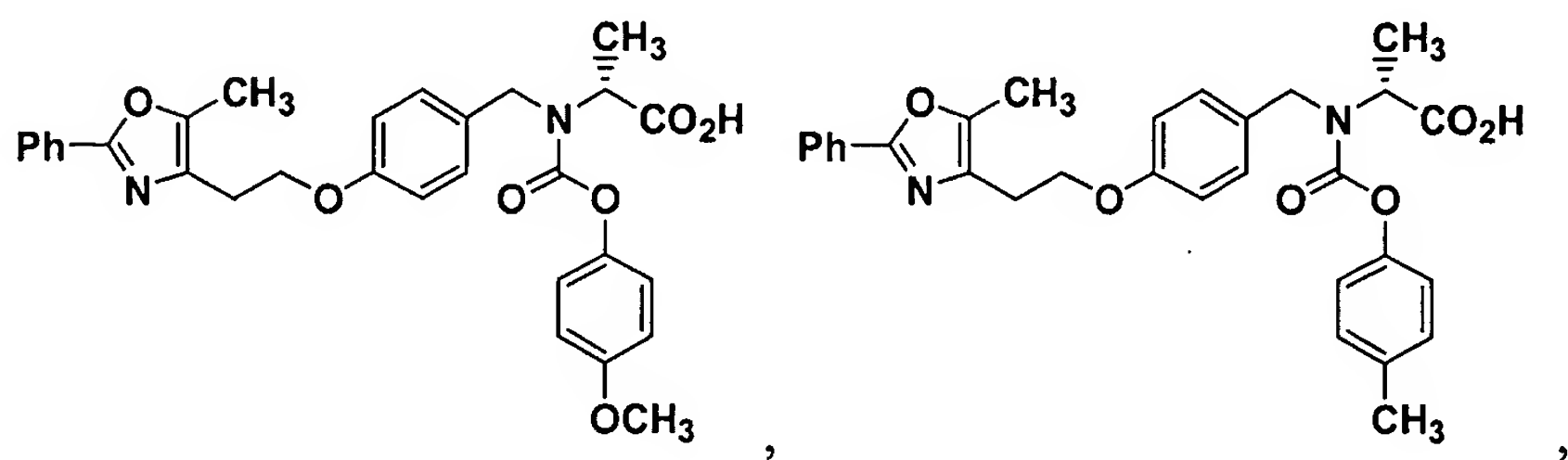
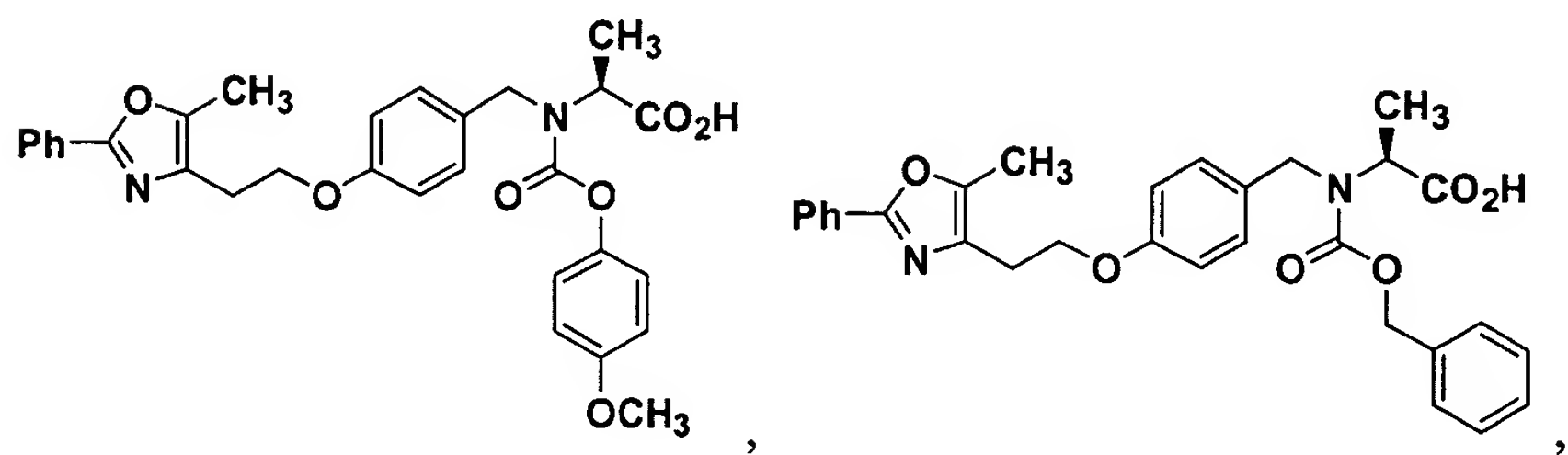
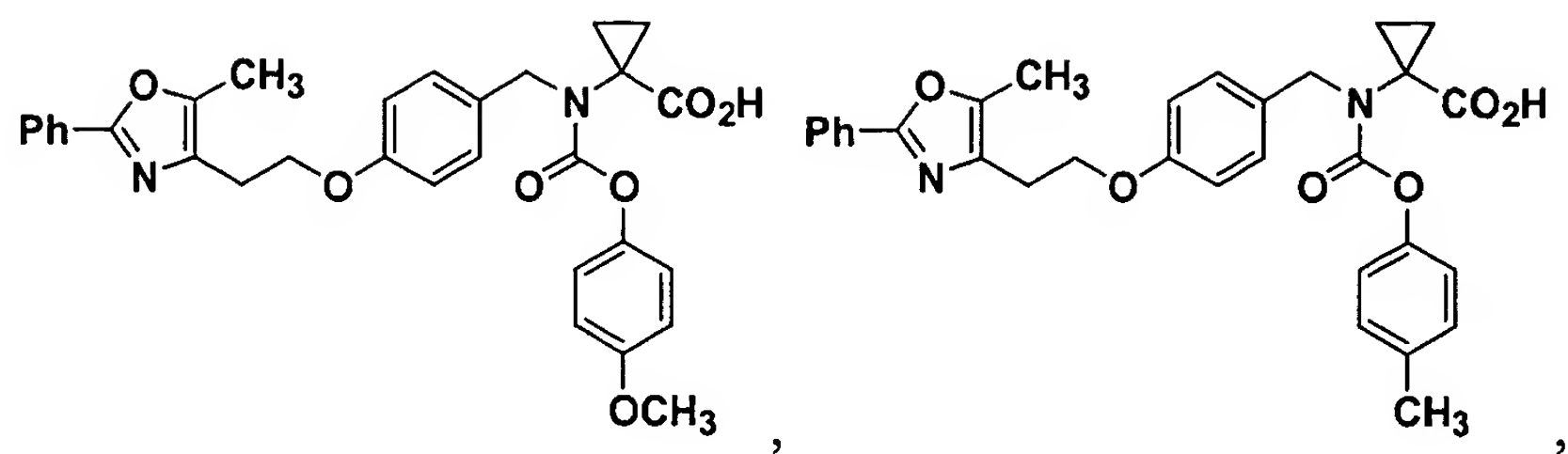


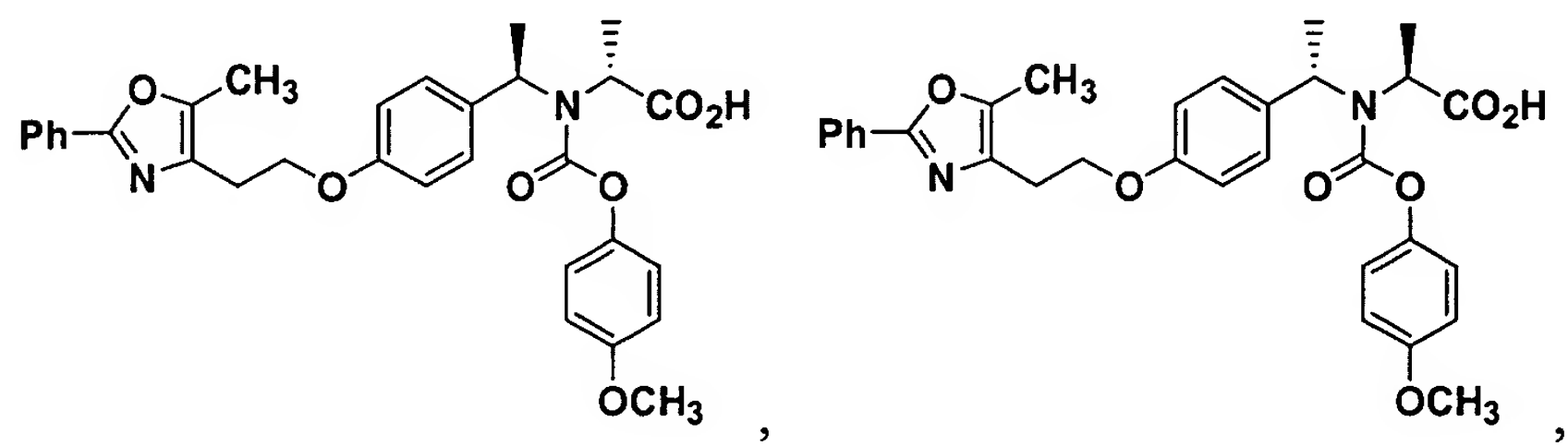
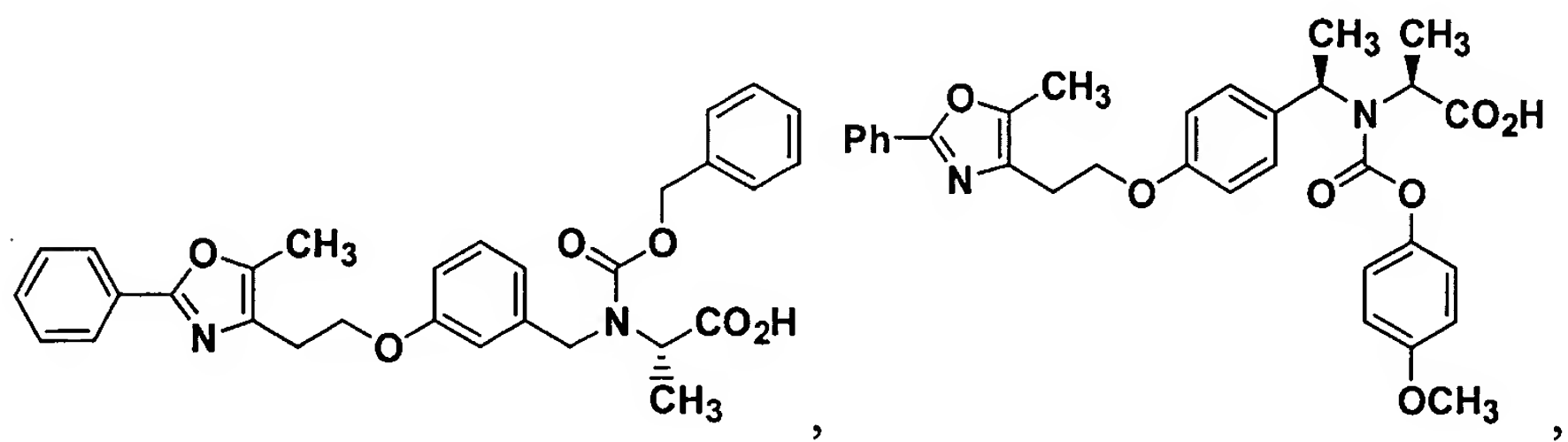
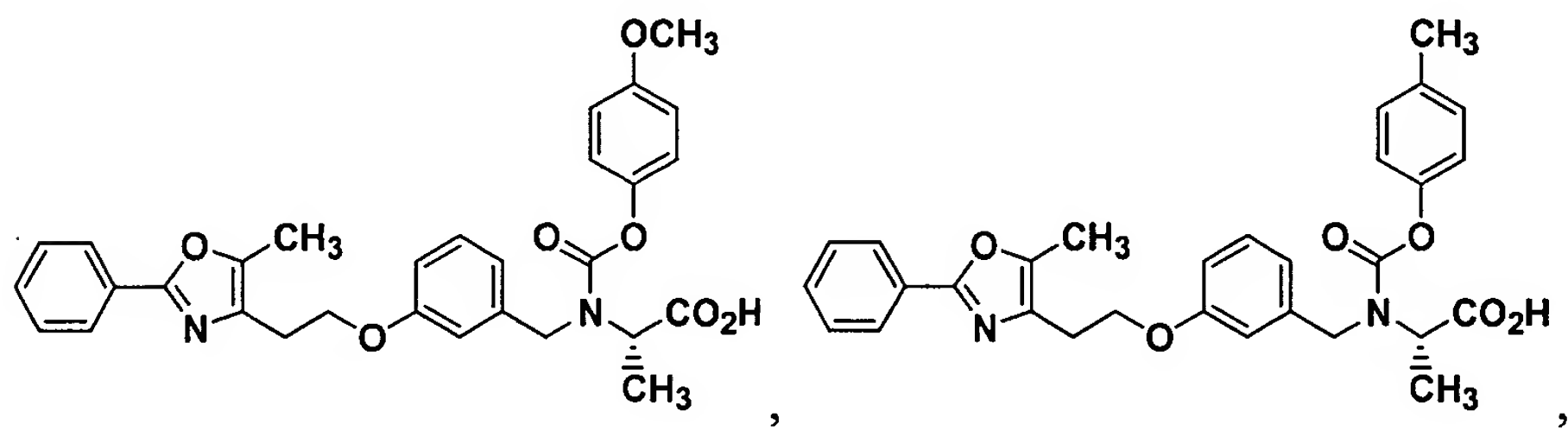
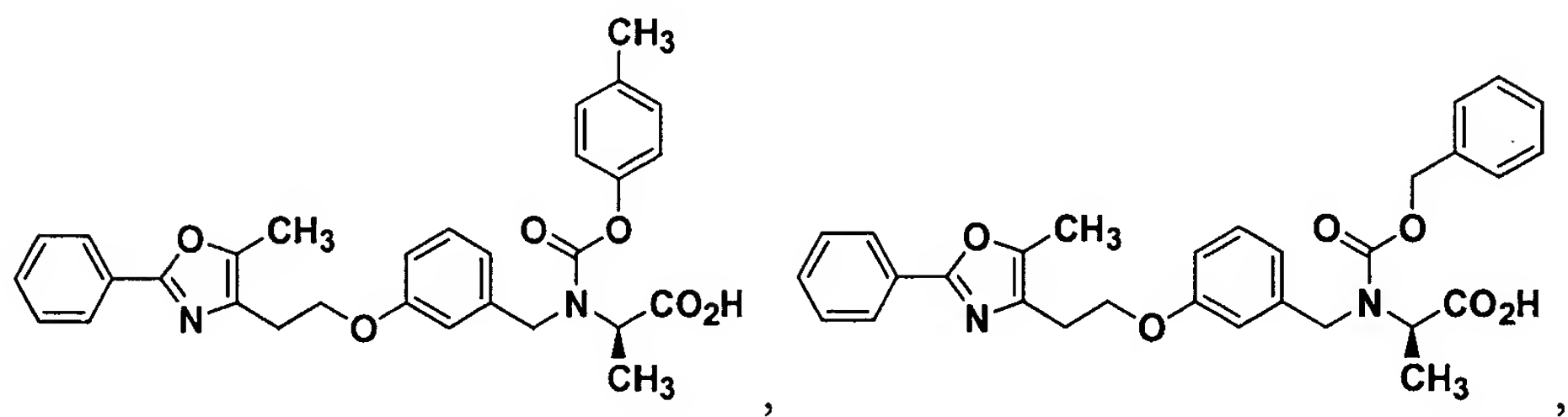
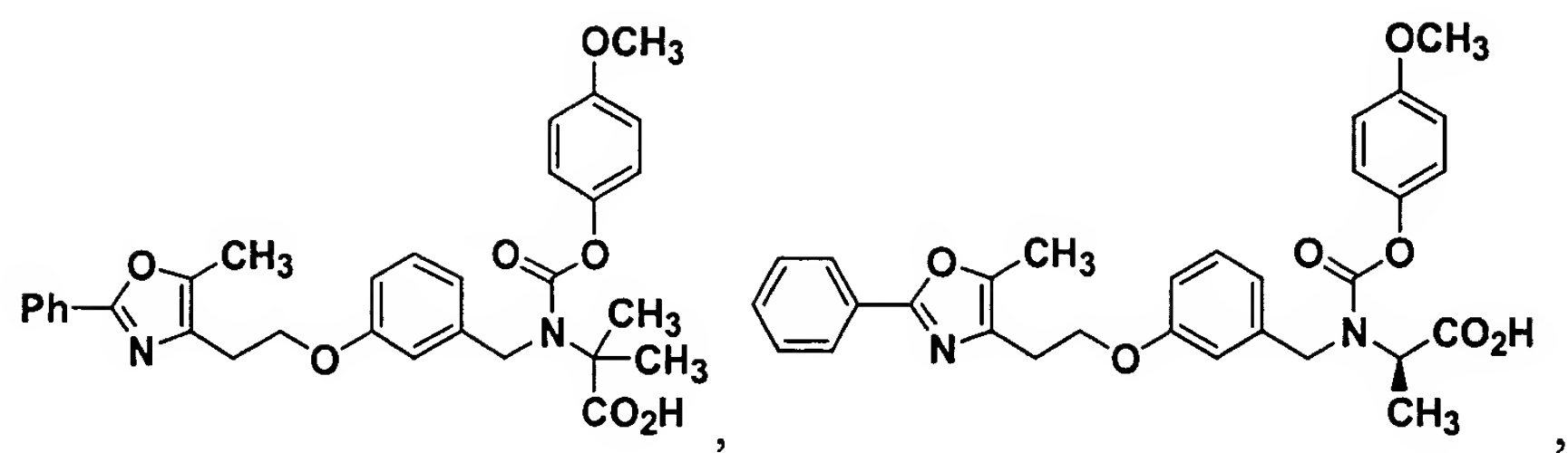


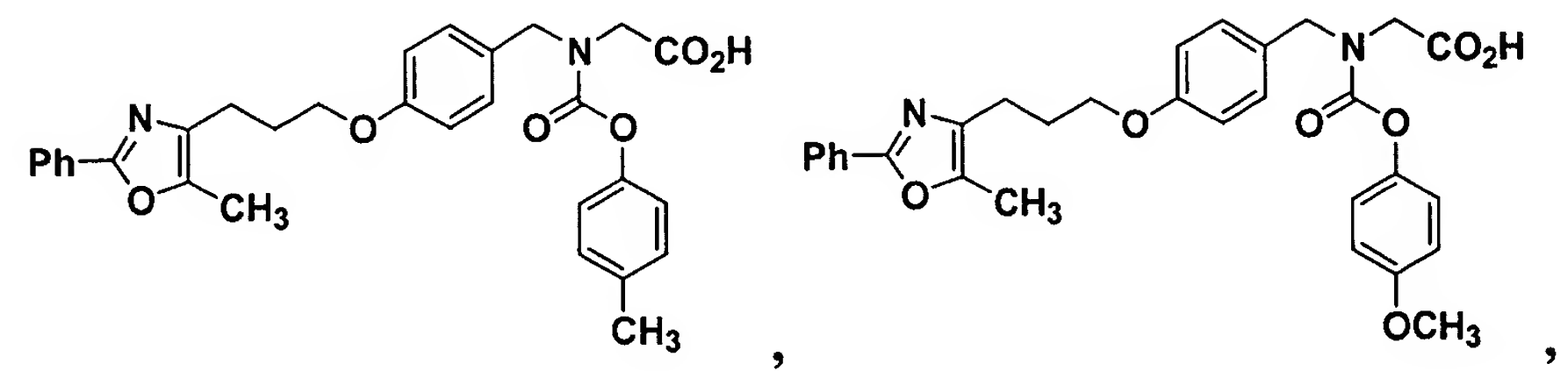
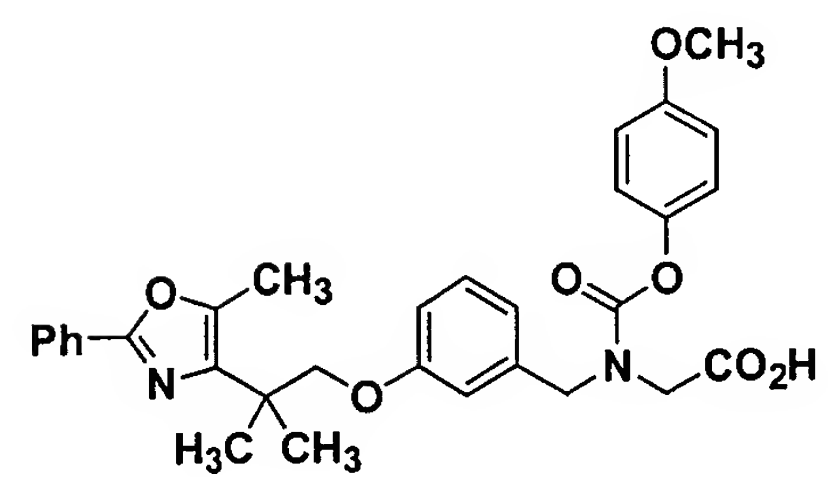
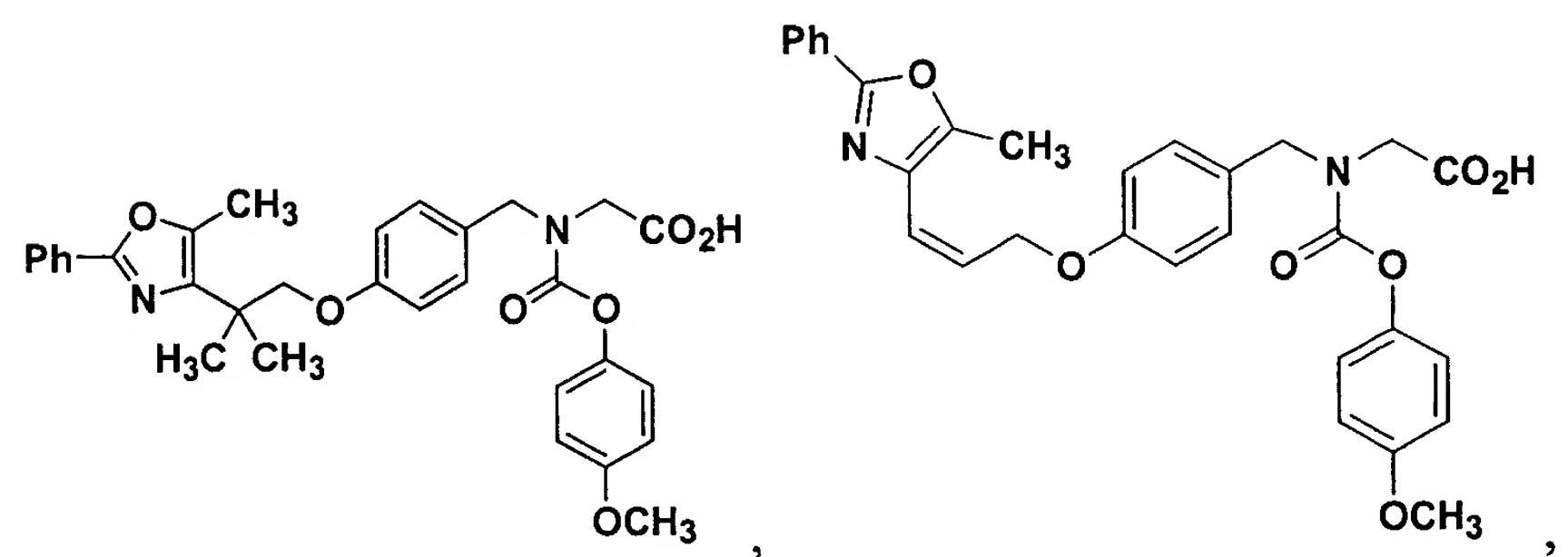
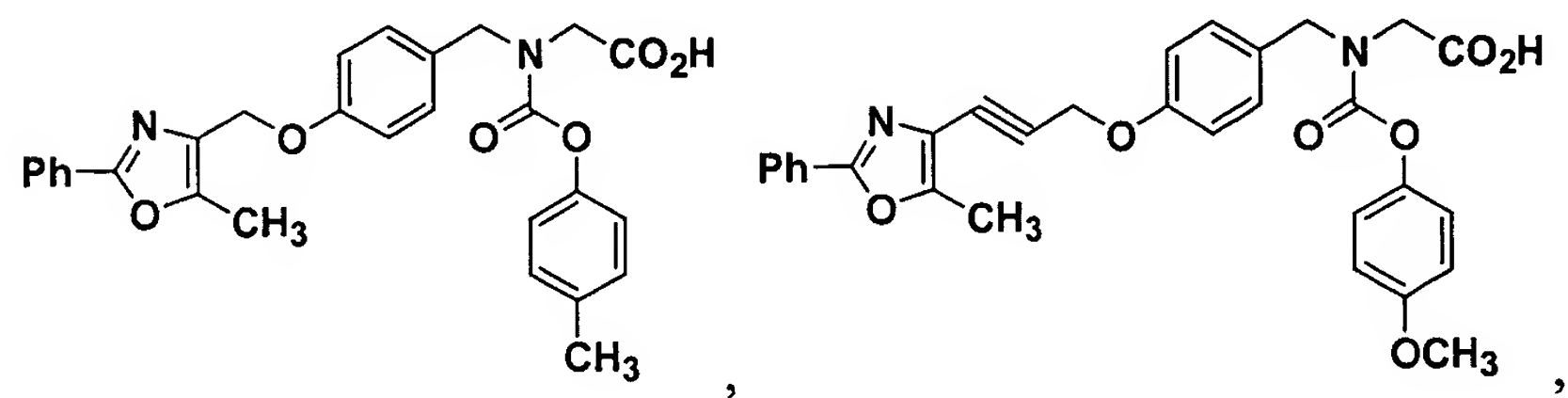
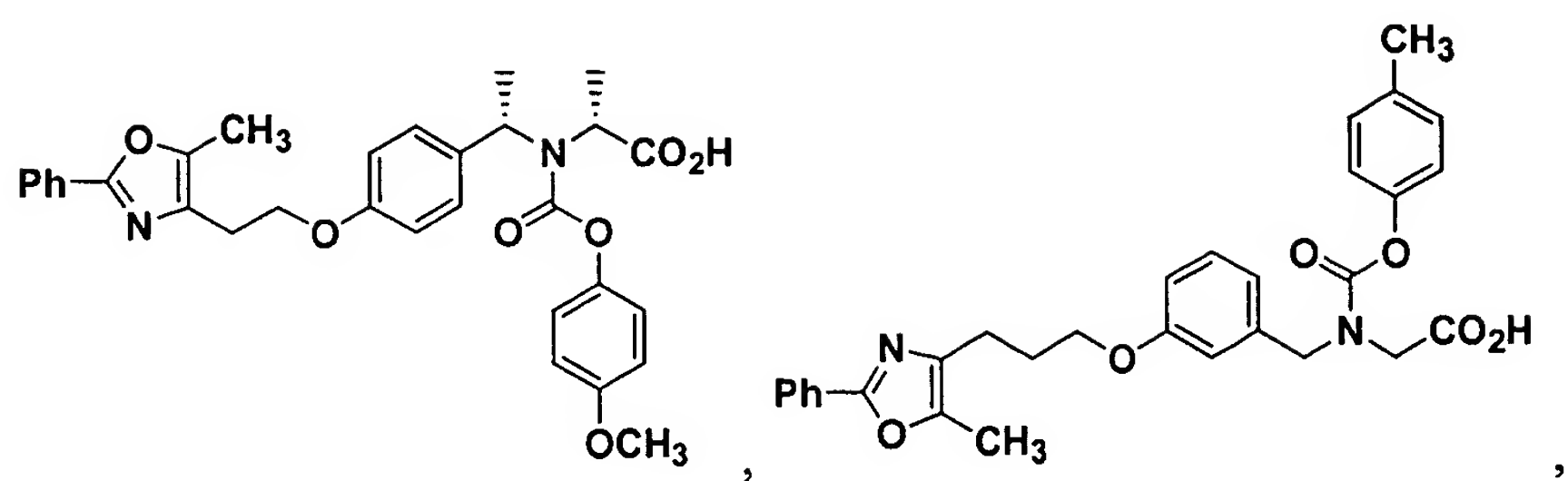


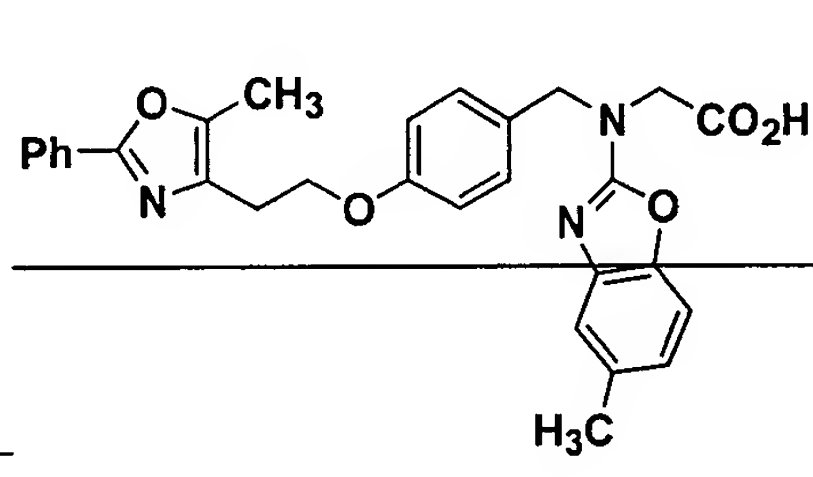
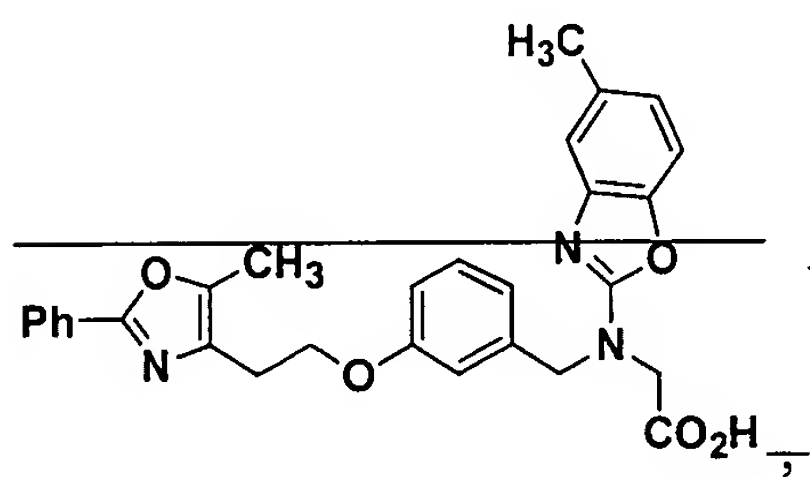
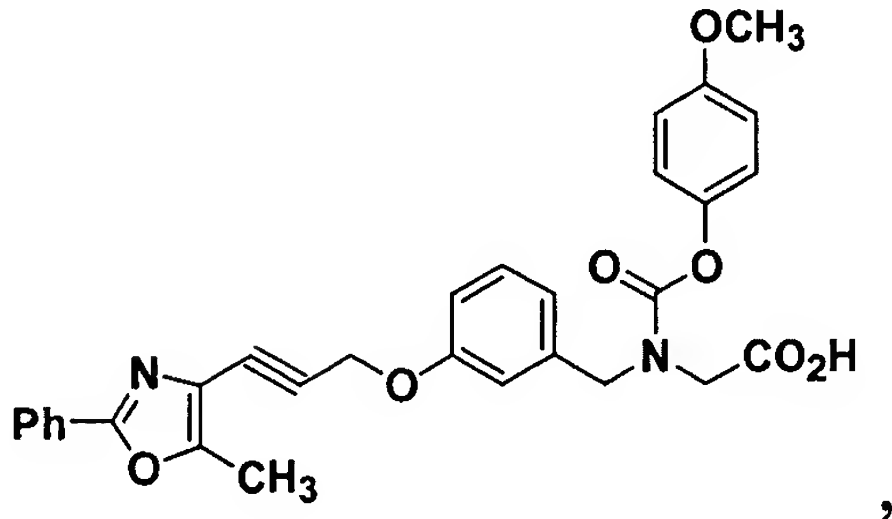
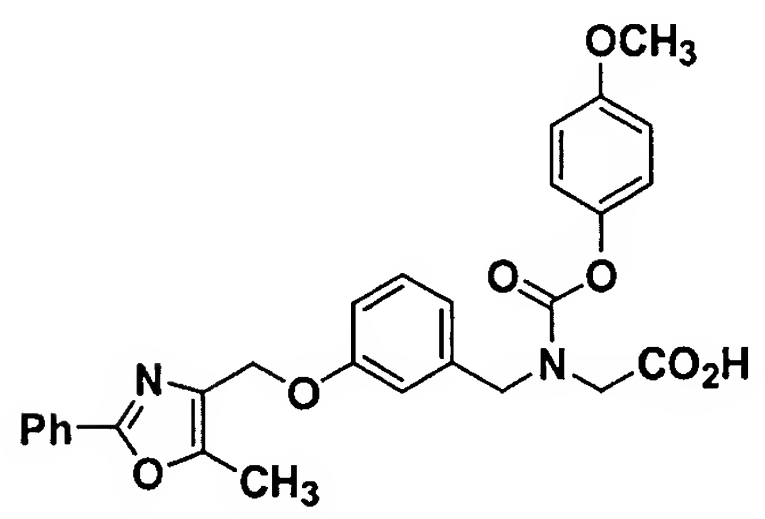
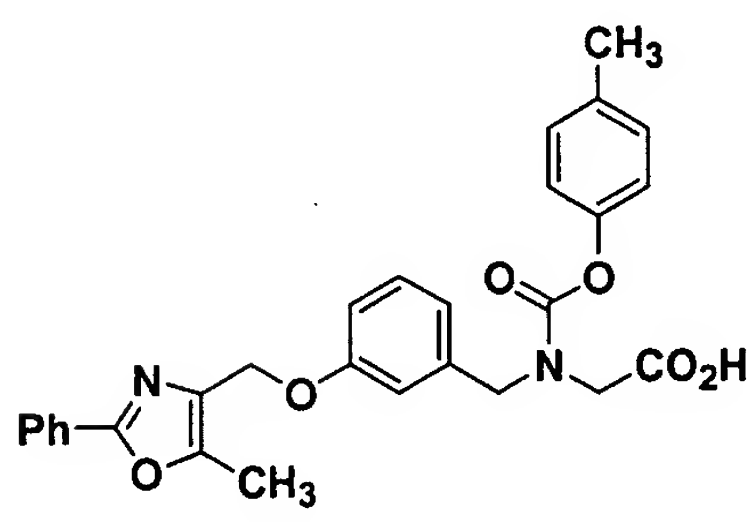
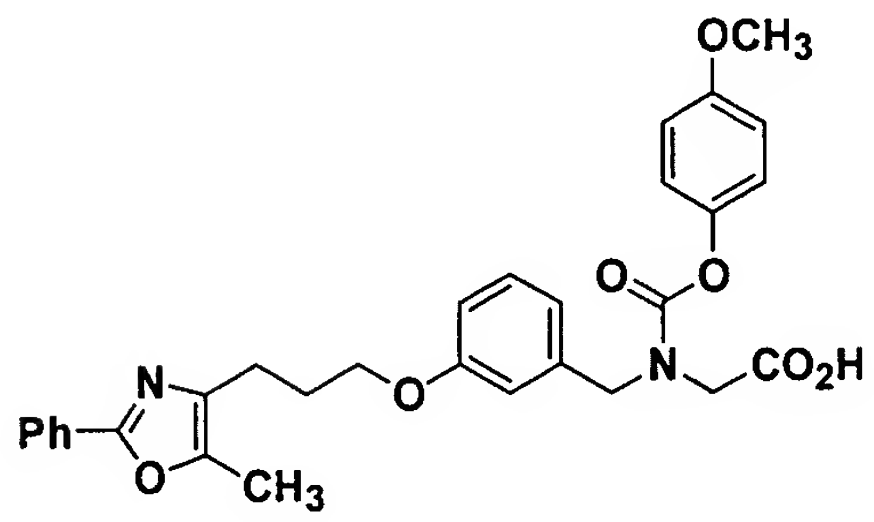
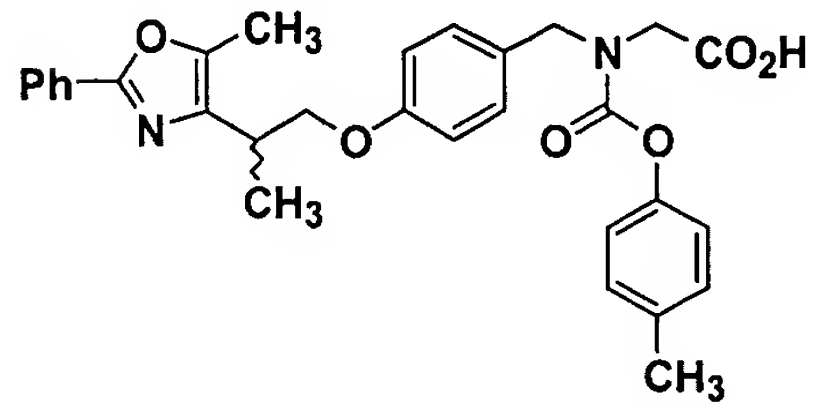
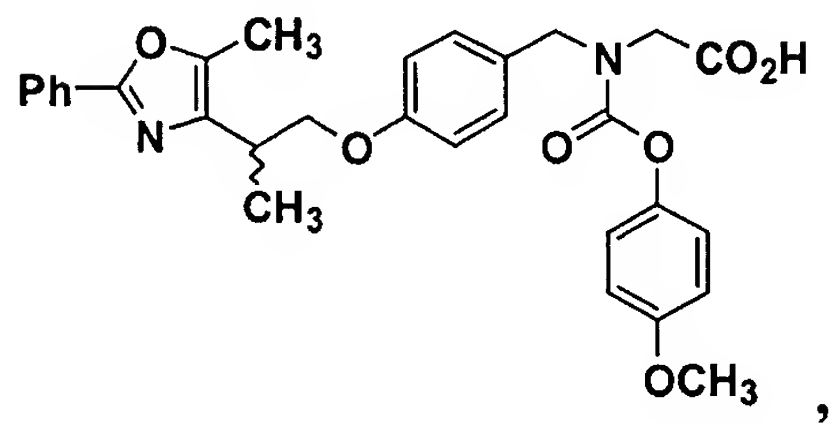
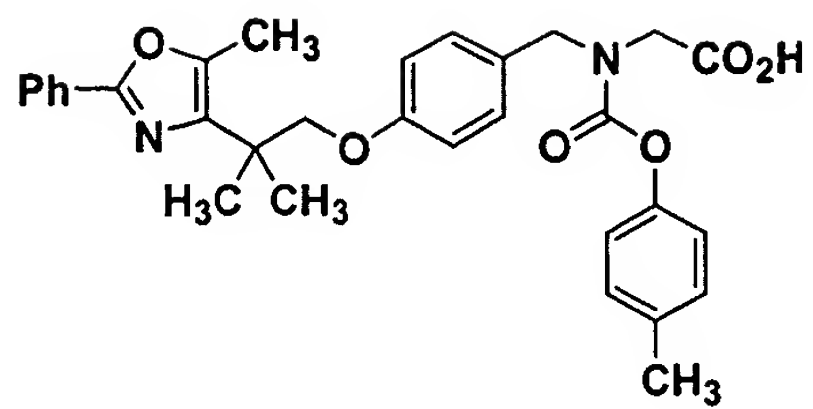
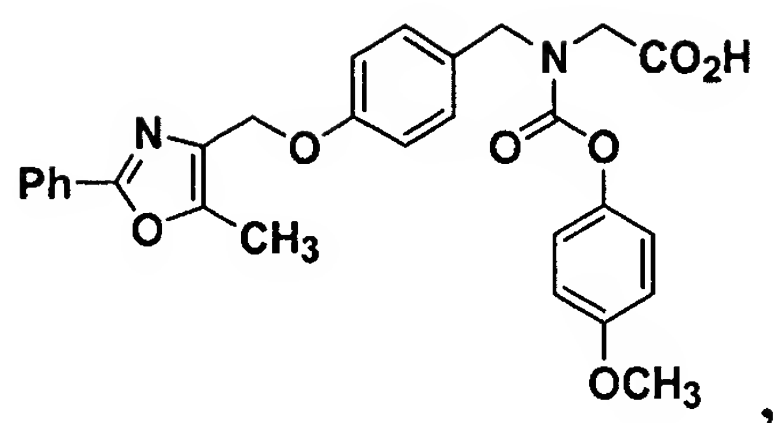


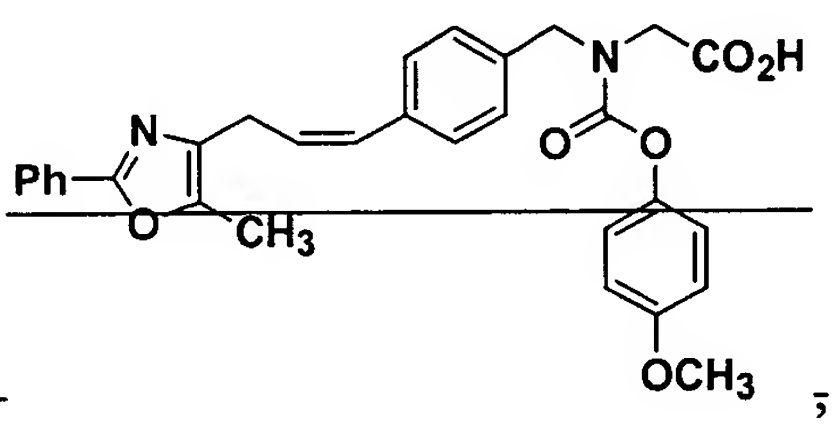
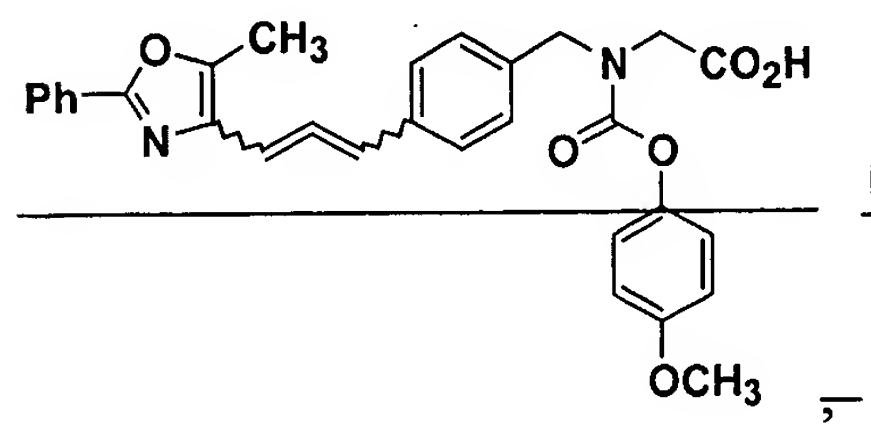
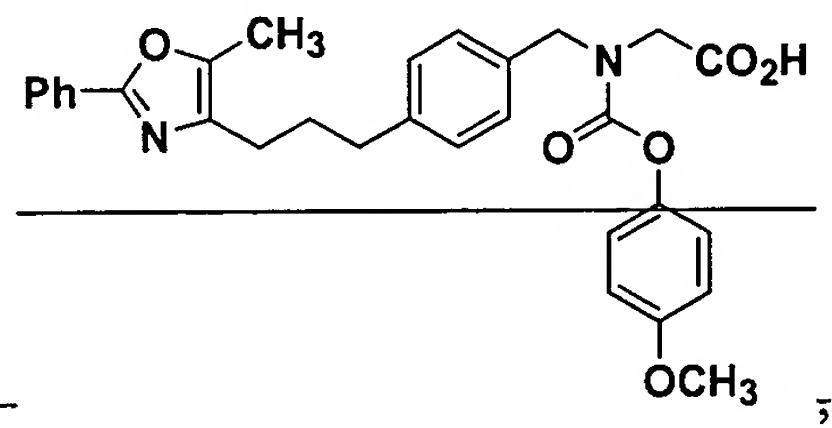
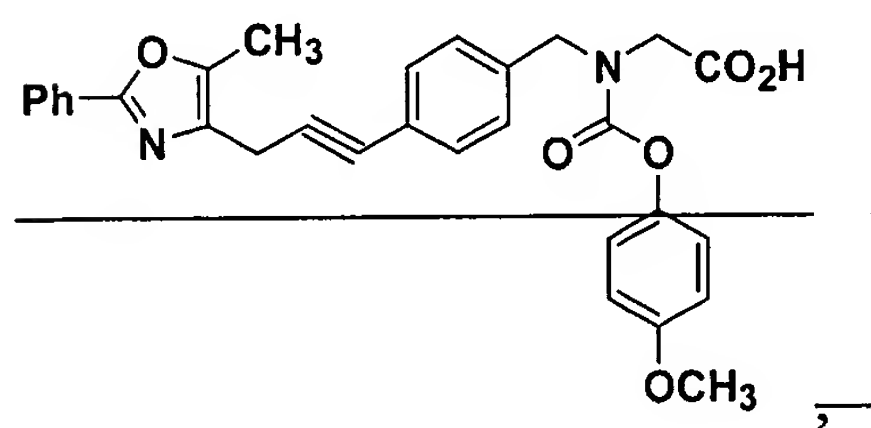
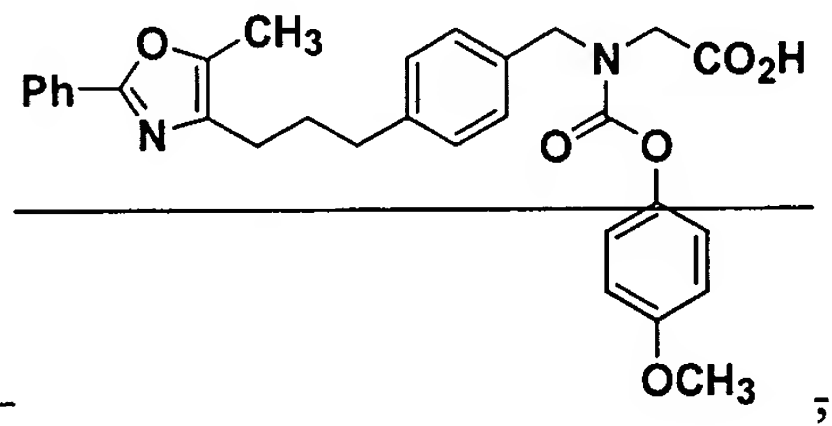
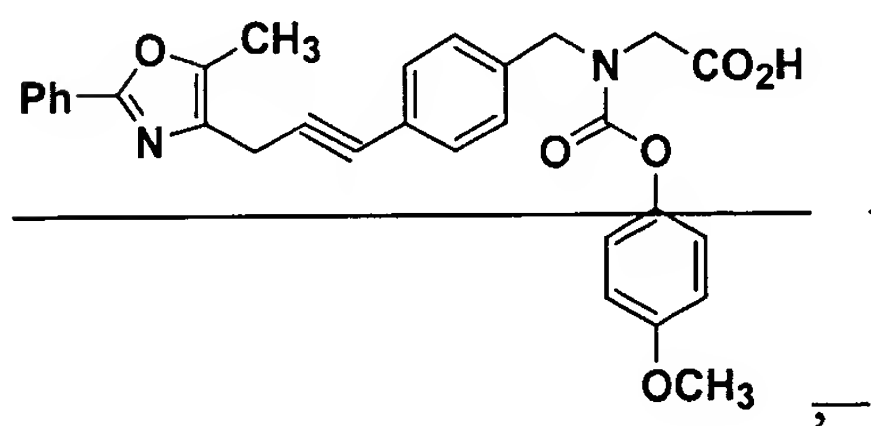
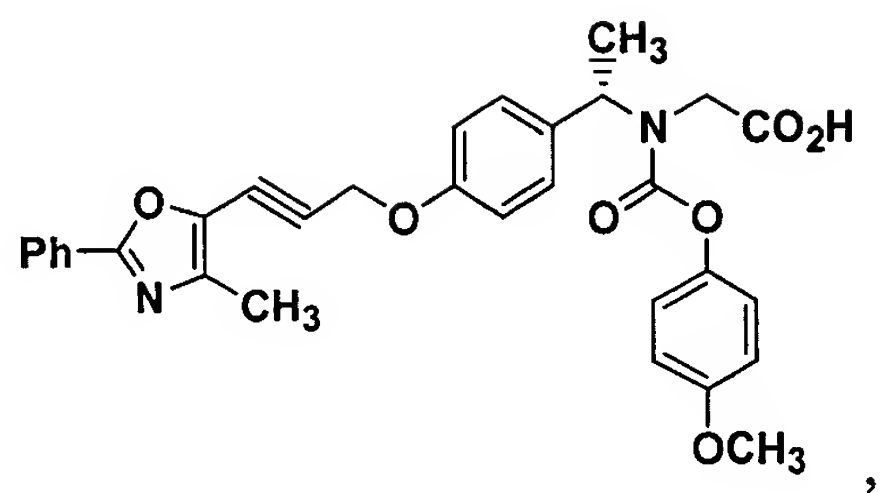
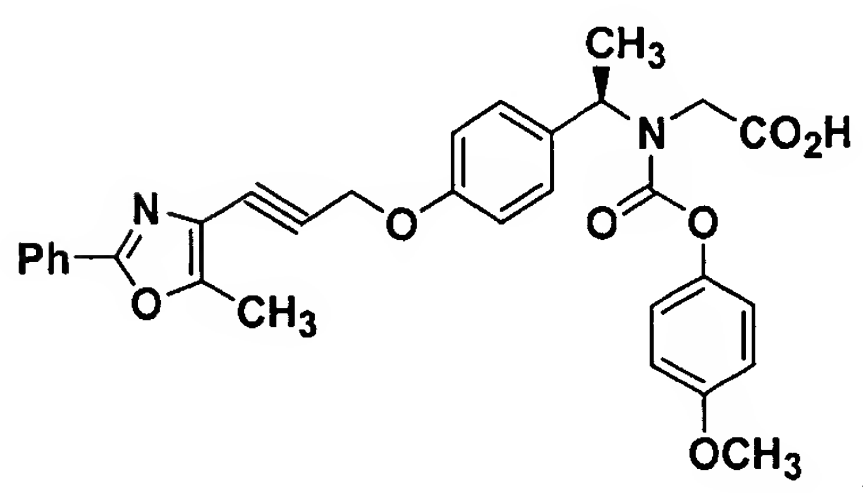
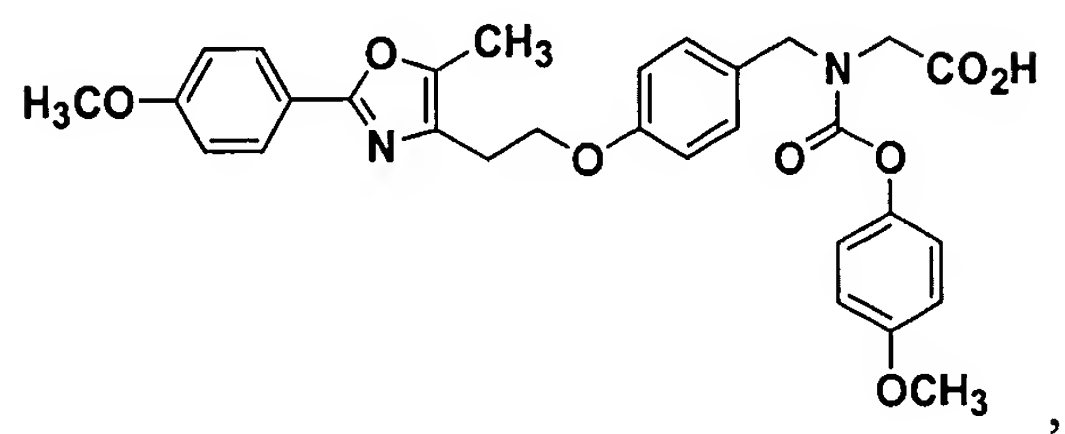
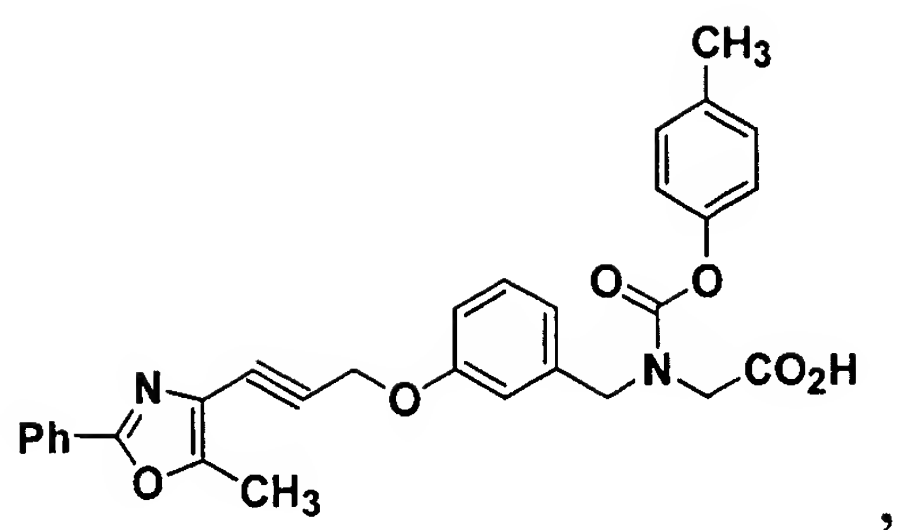




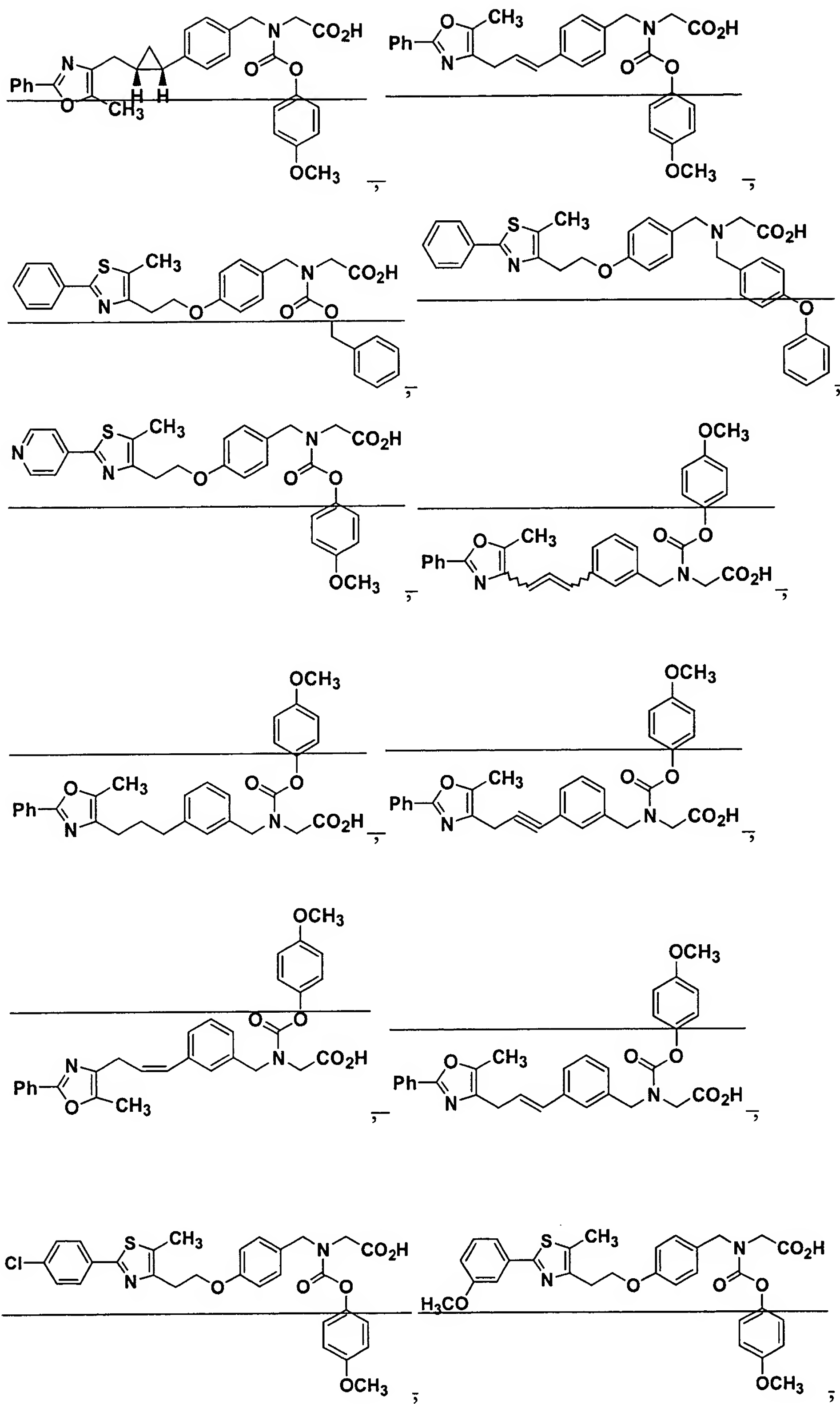


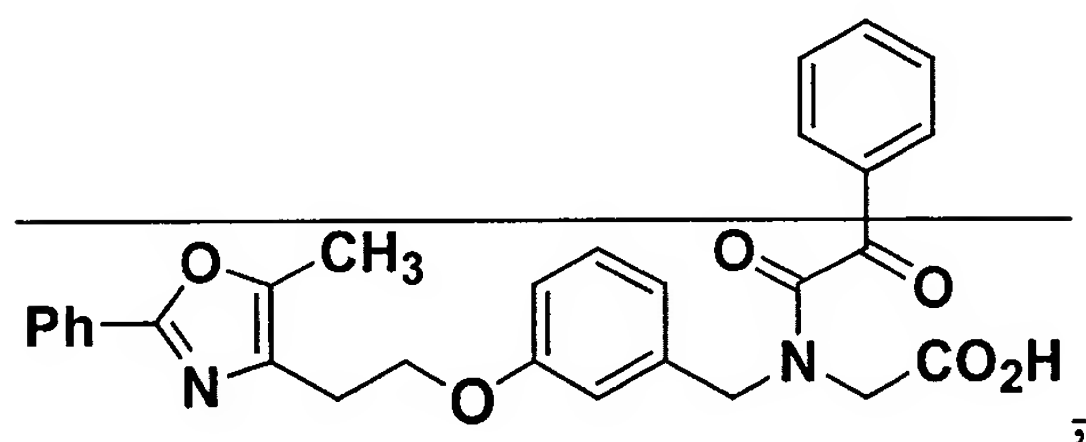
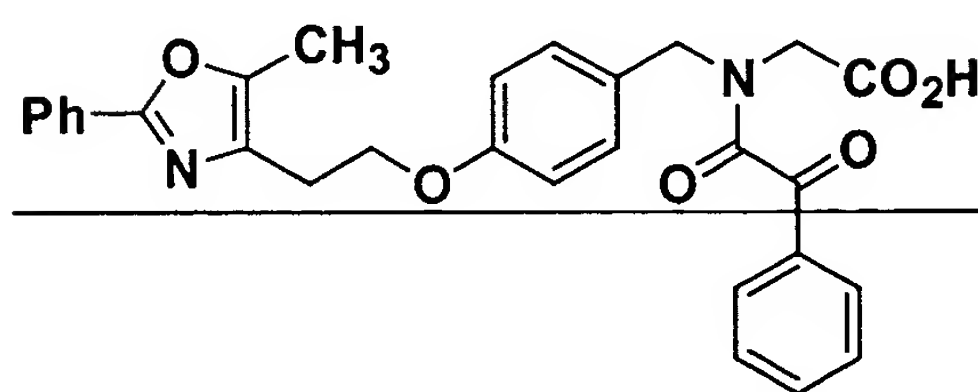
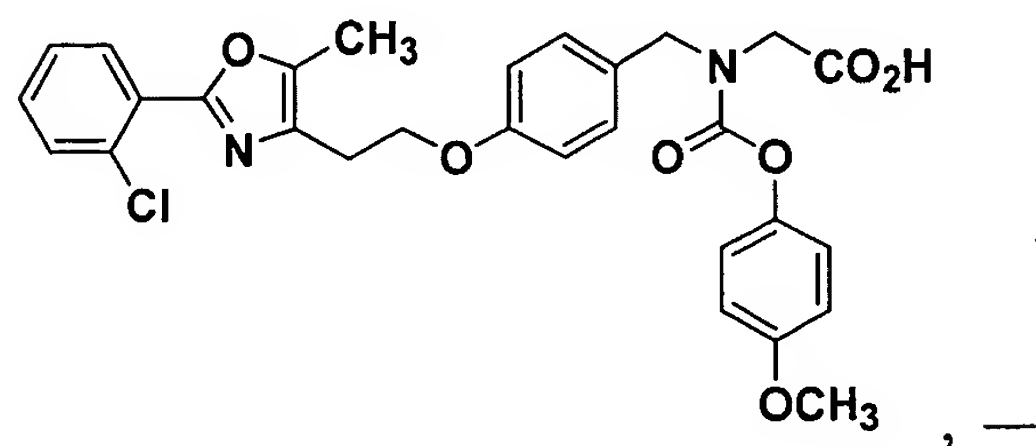
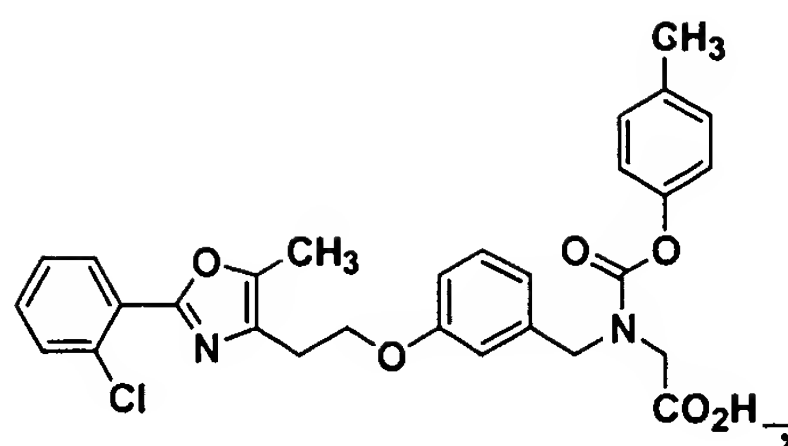
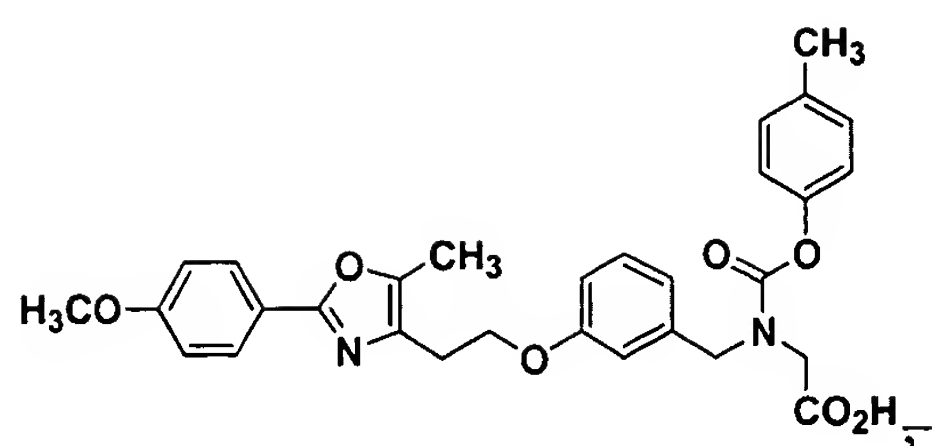






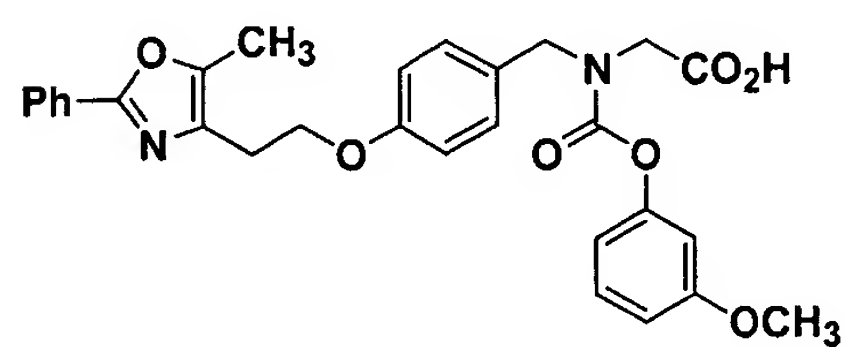
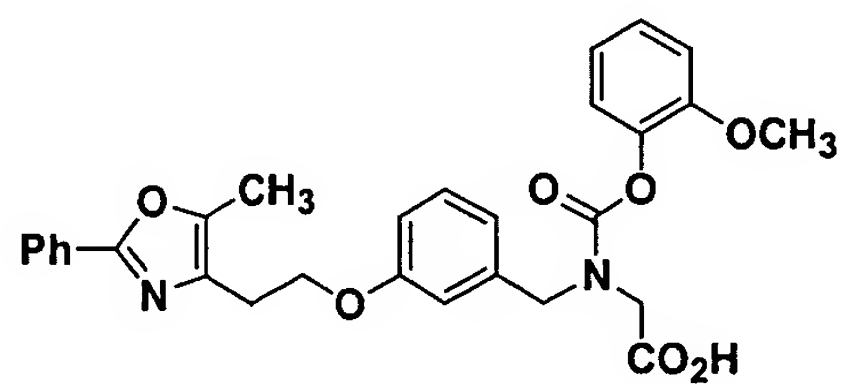
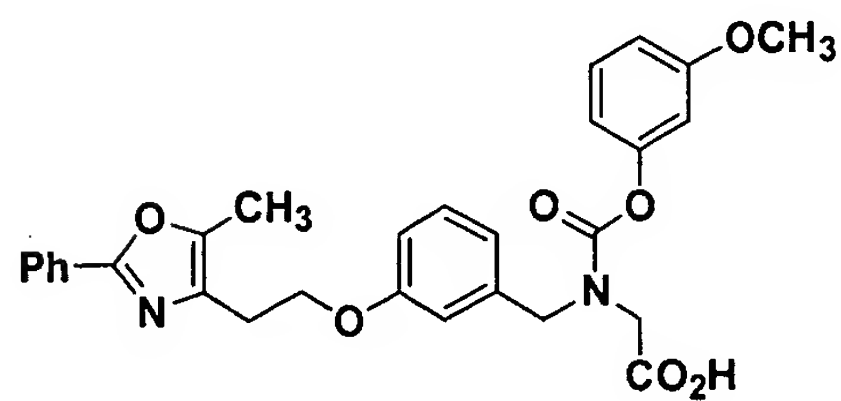
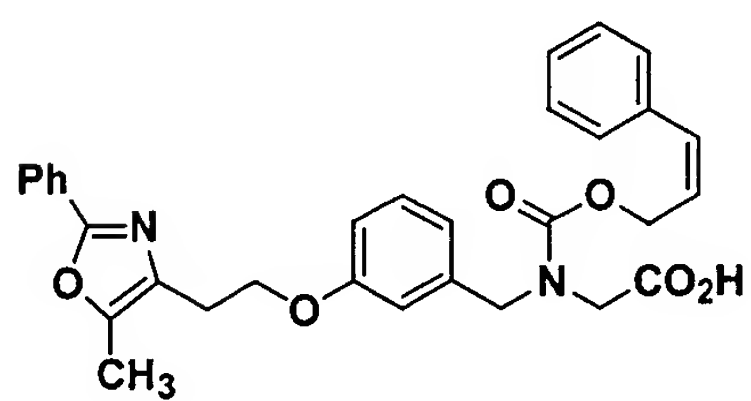
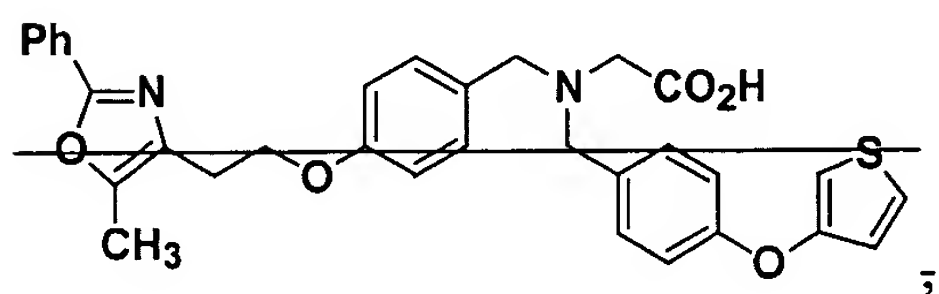
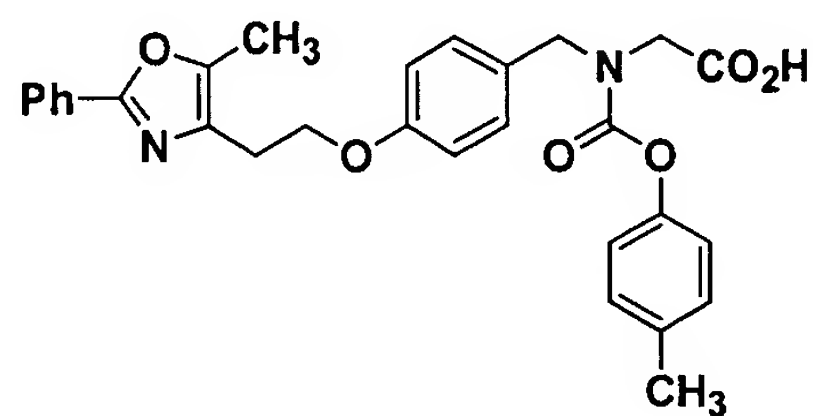
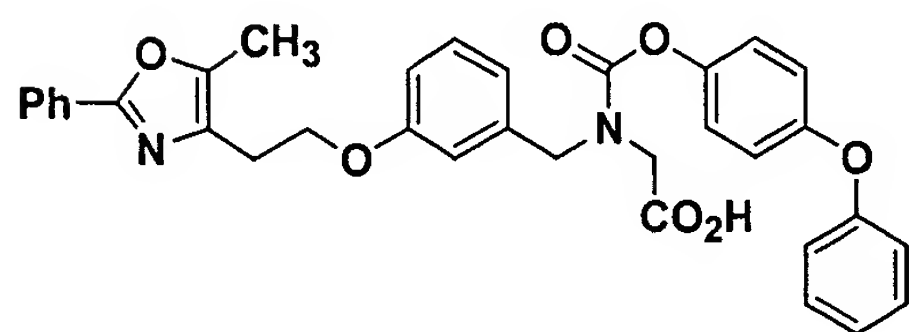
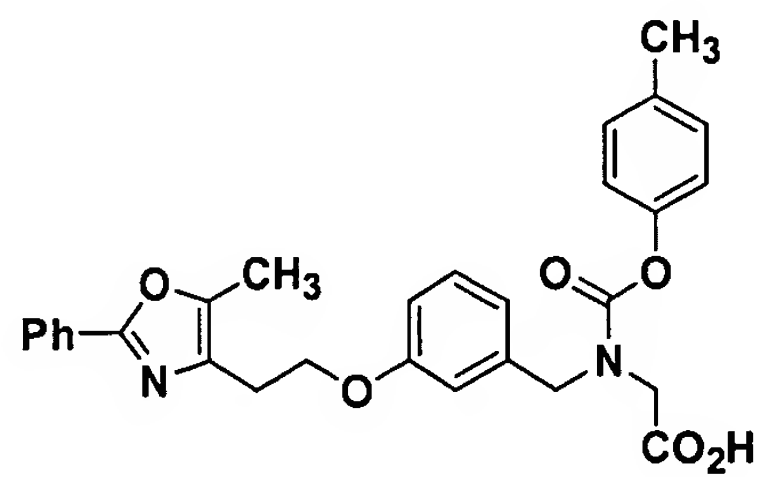
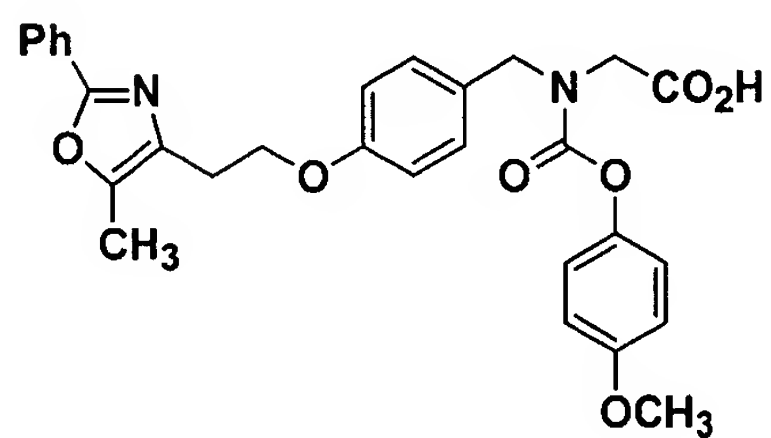
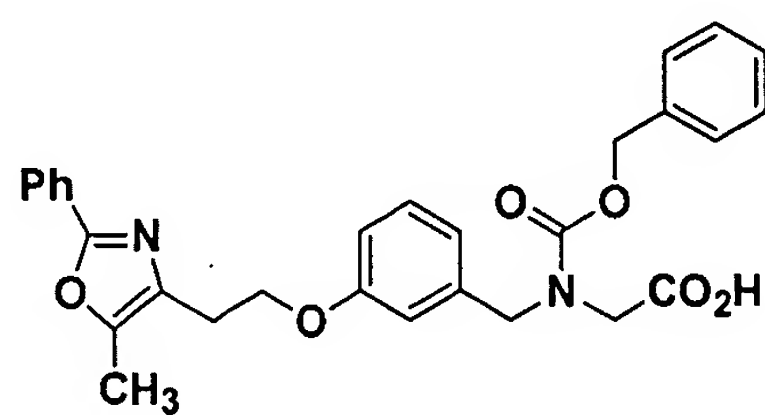
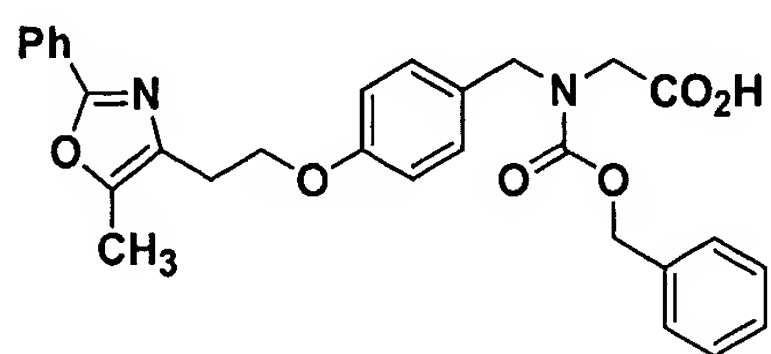


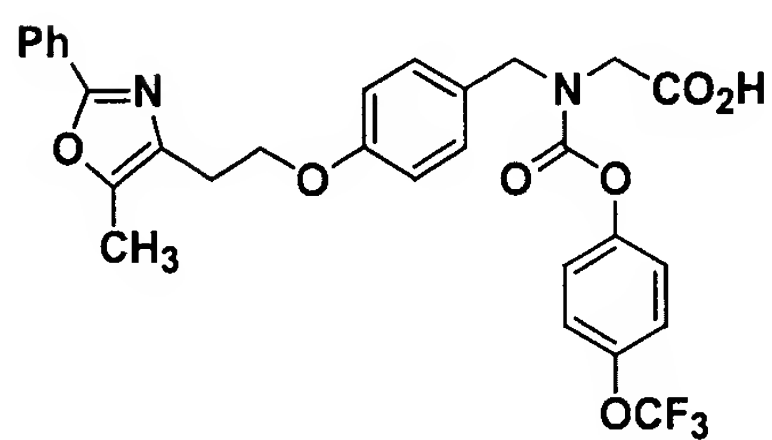
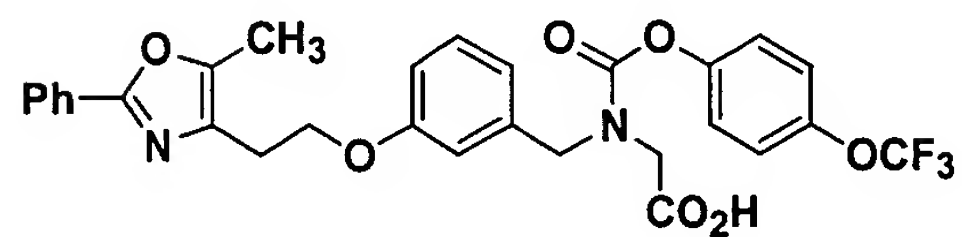
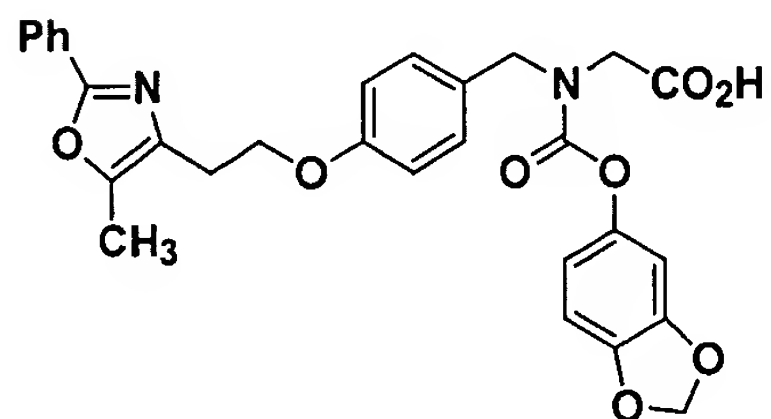
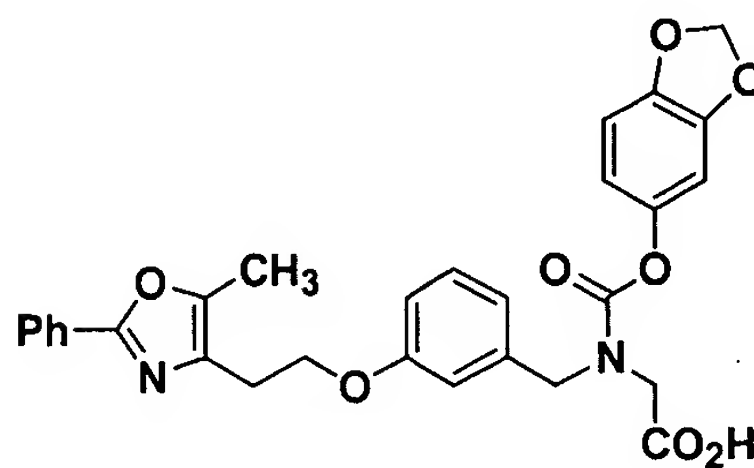
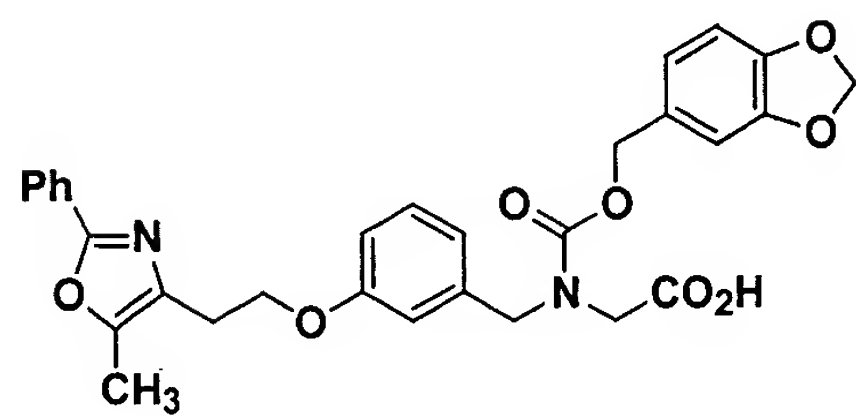
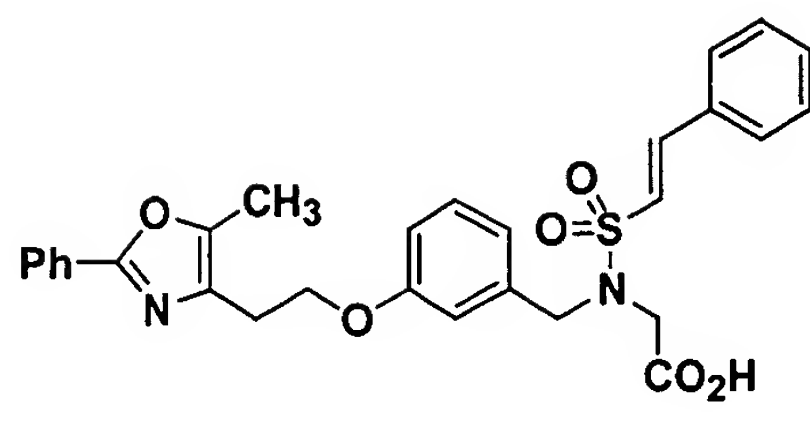
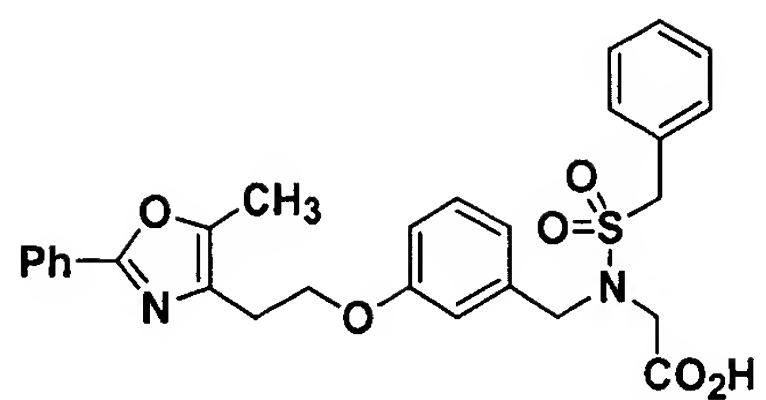


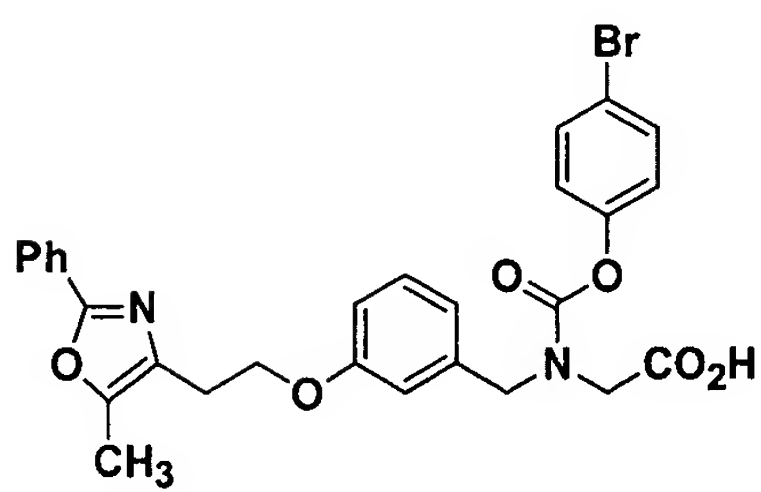
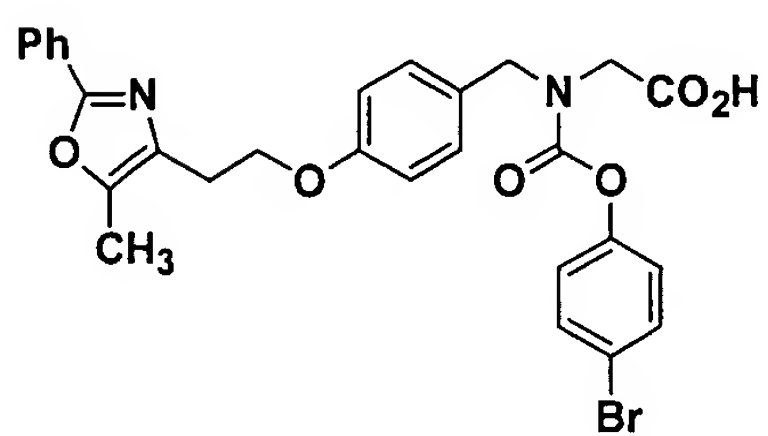
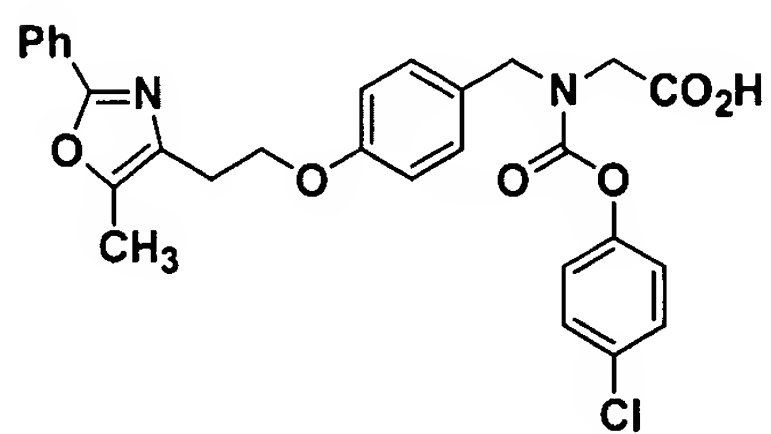
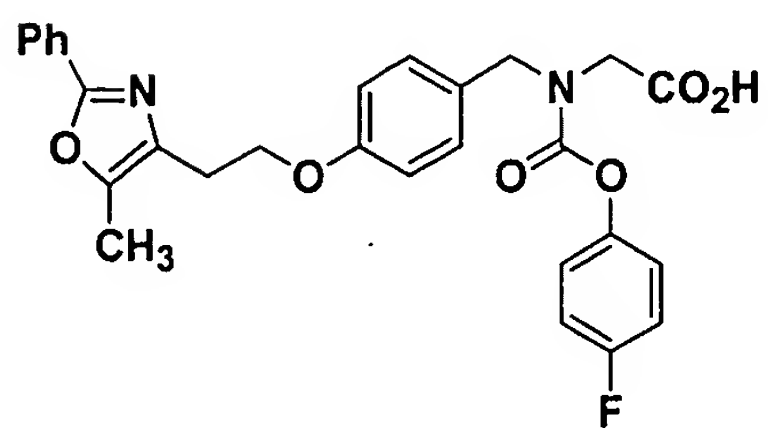
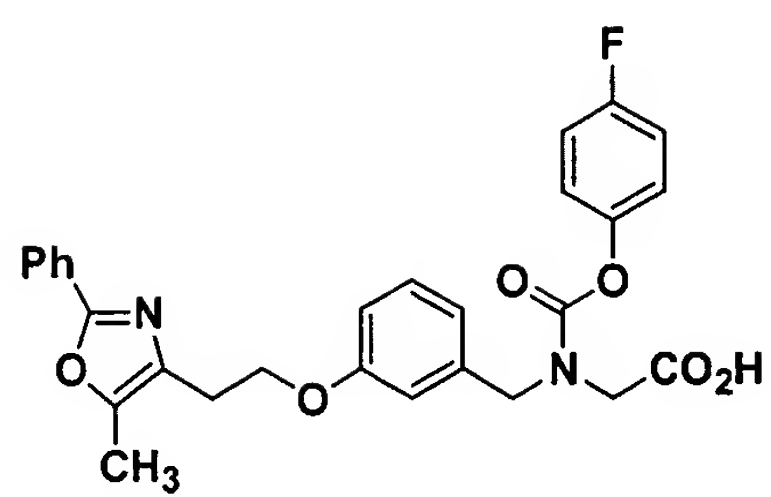
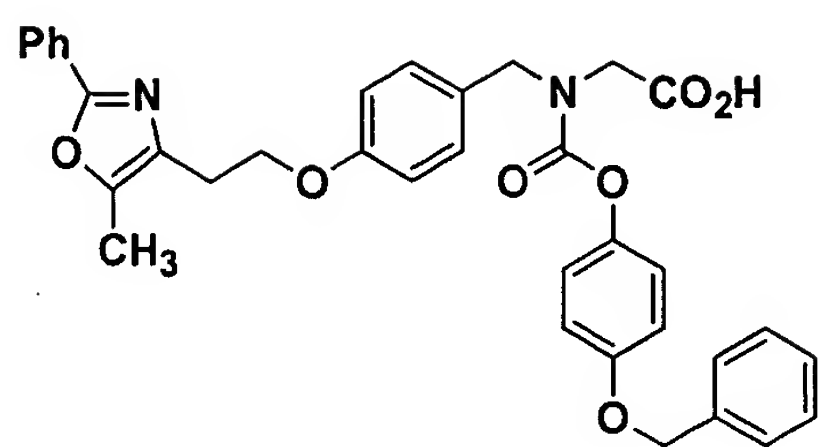


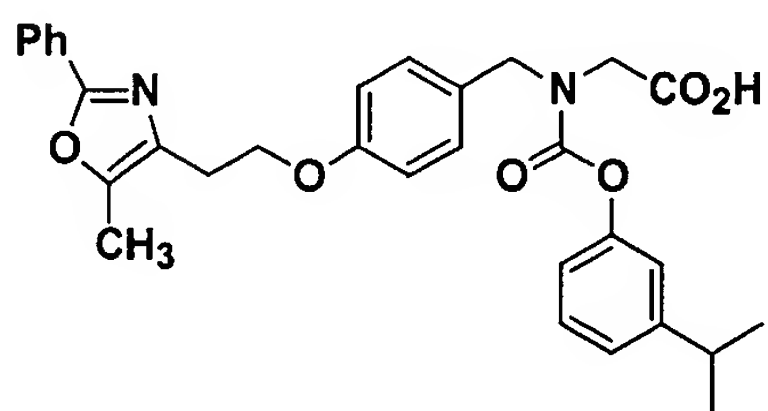
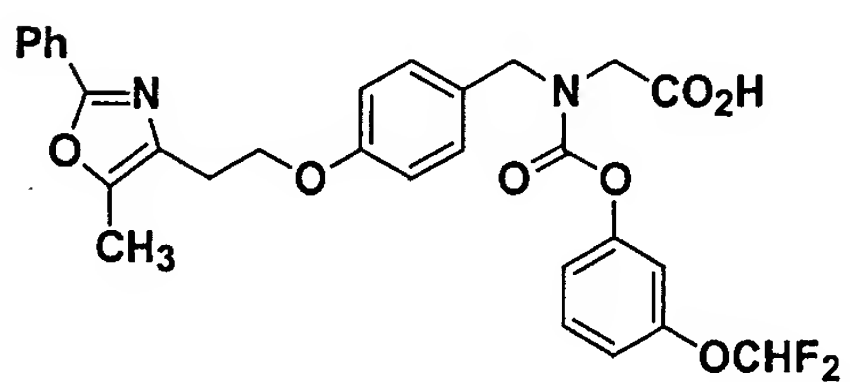
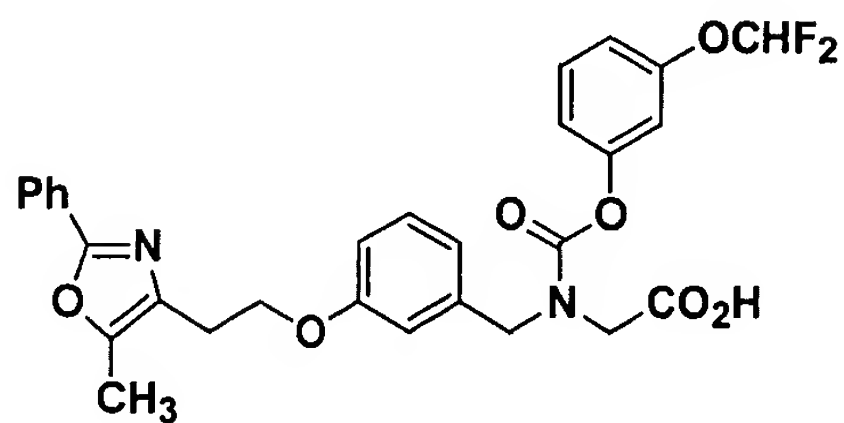
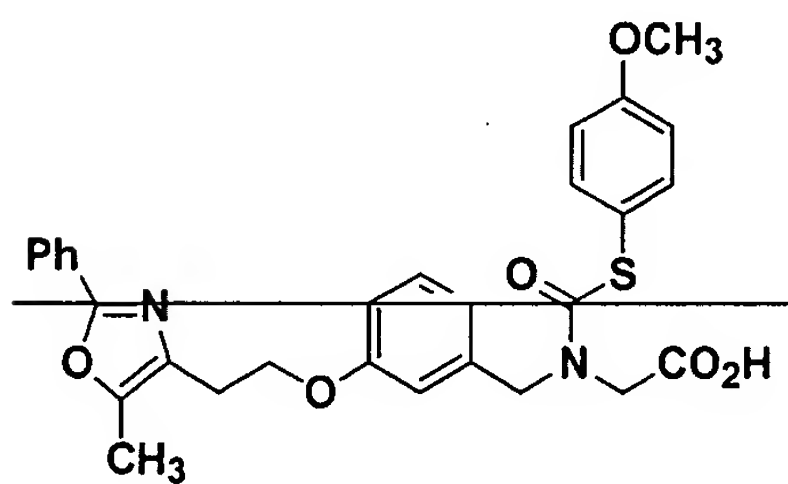
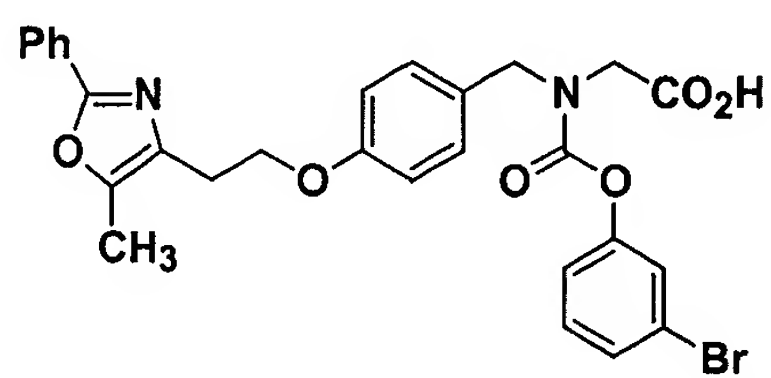
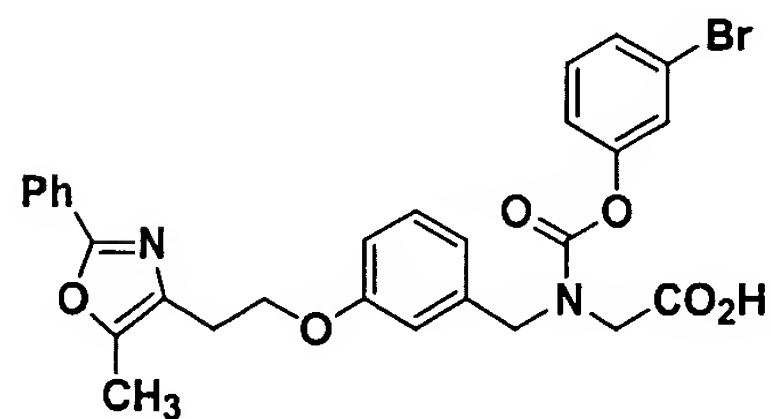
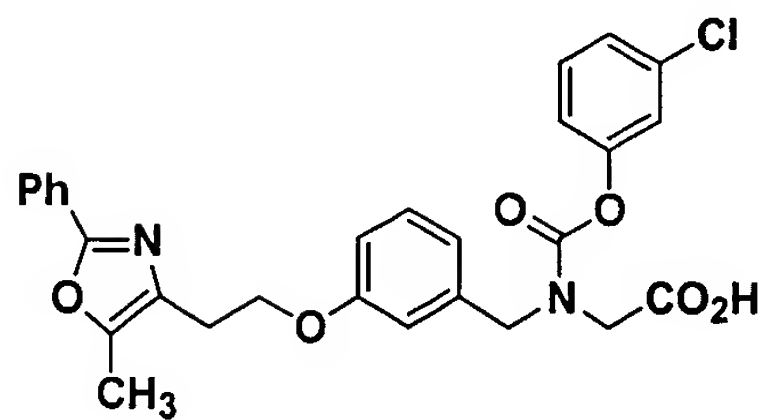
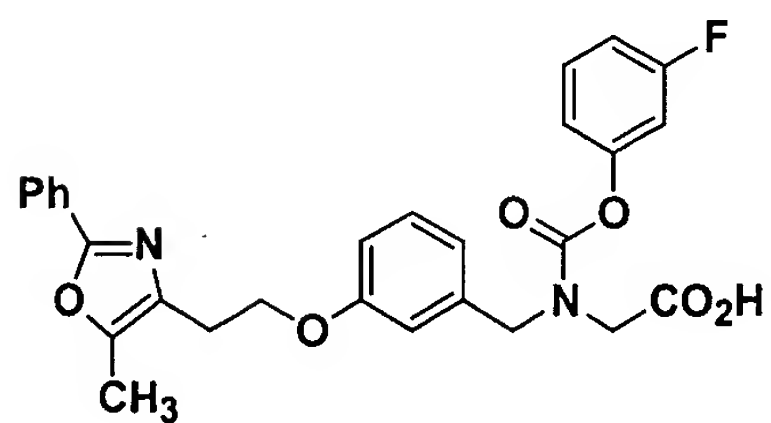
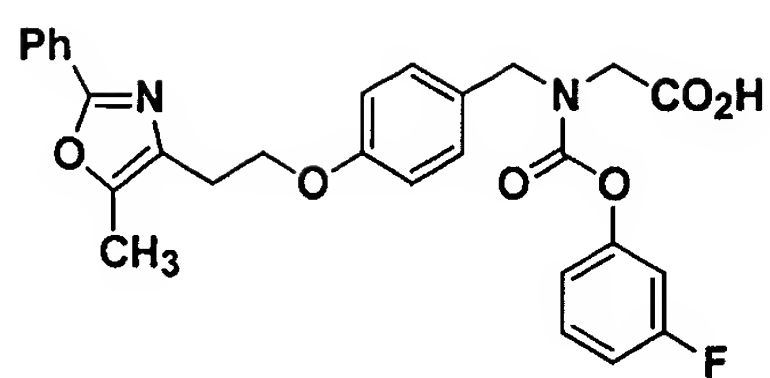
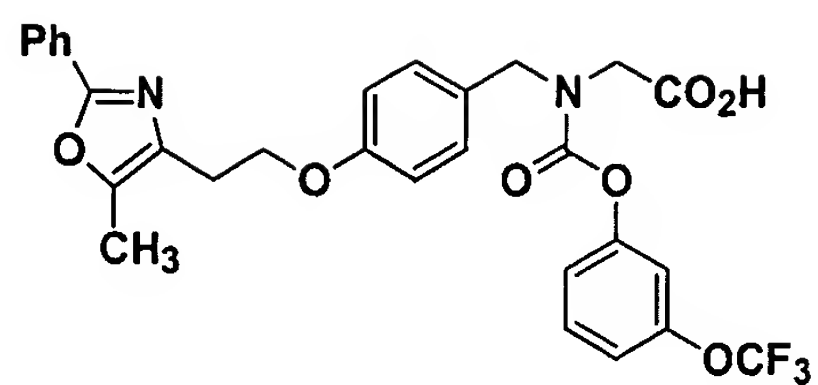
# **Claim 17 (currently amended)**

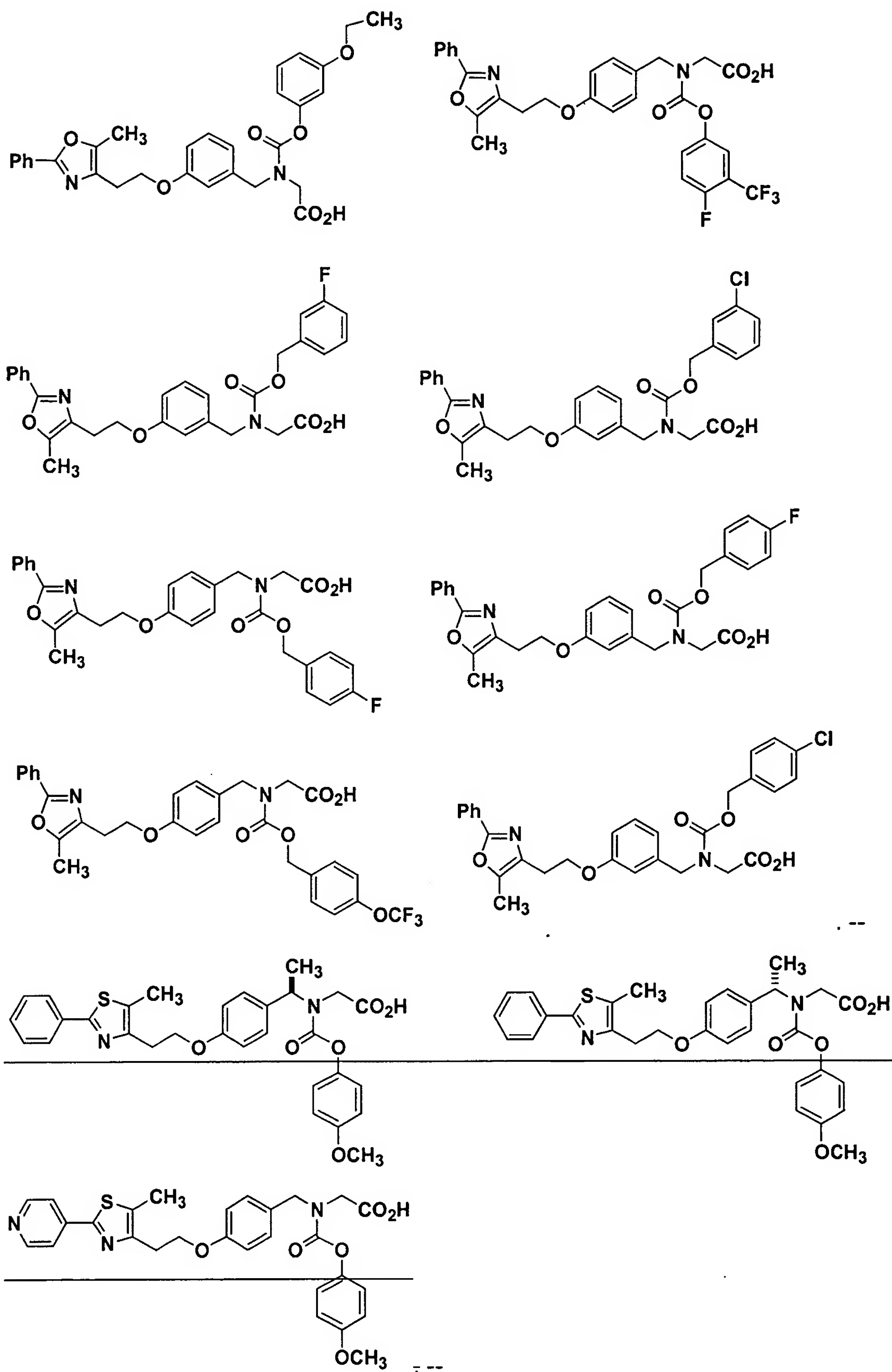
--17. (Amended) The method as defined in Claim 34 wherein the compound employed has the structure







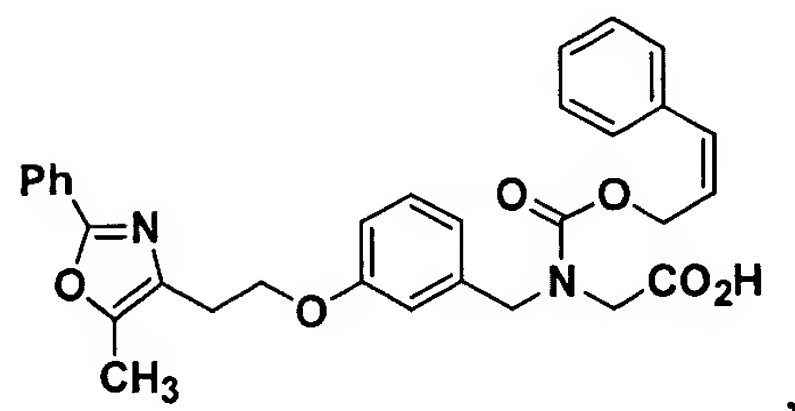
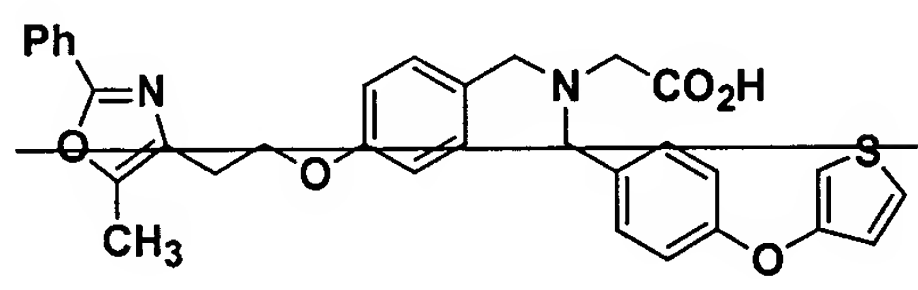
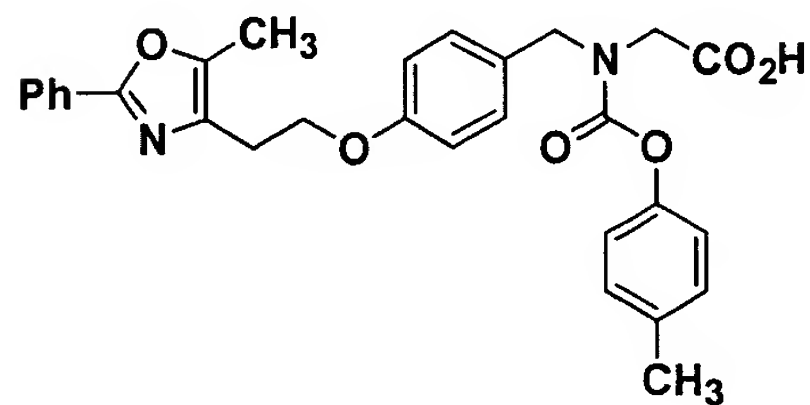
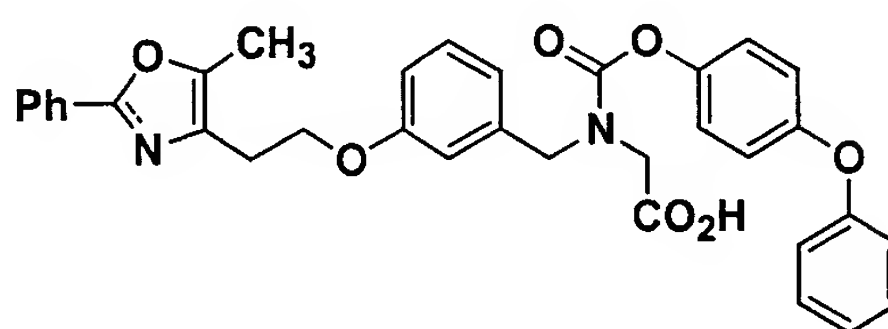
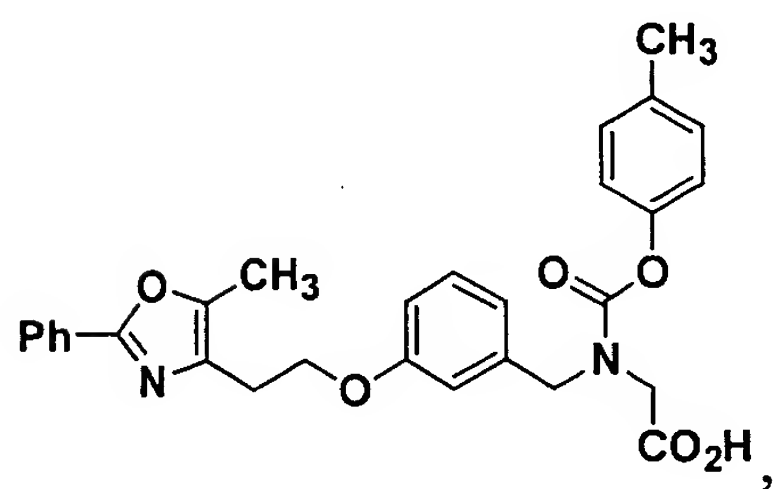
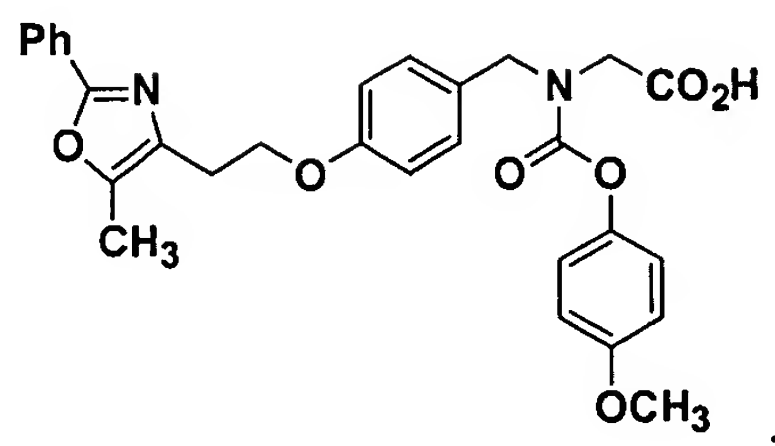
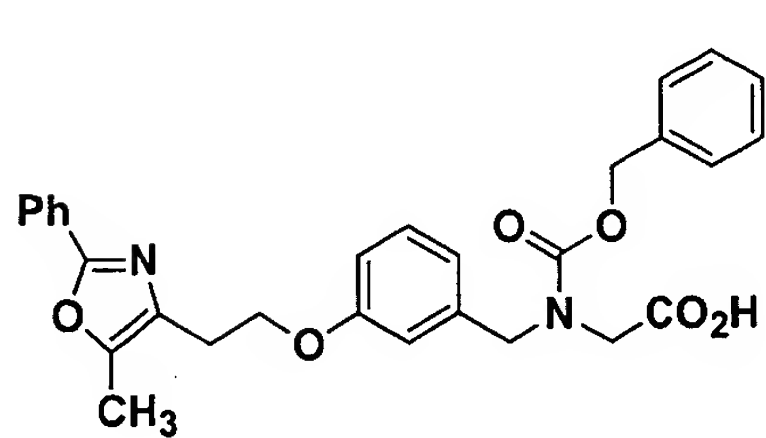
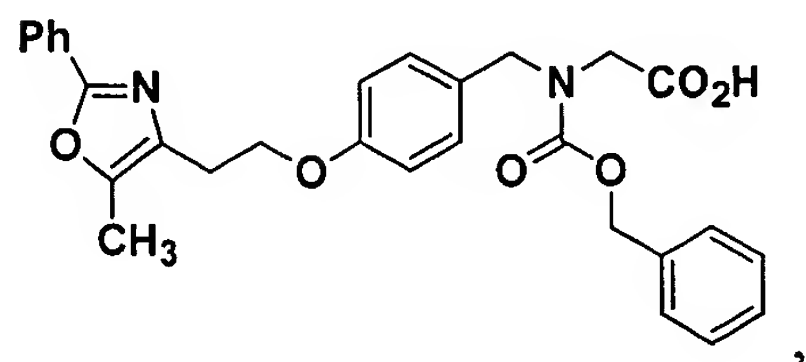




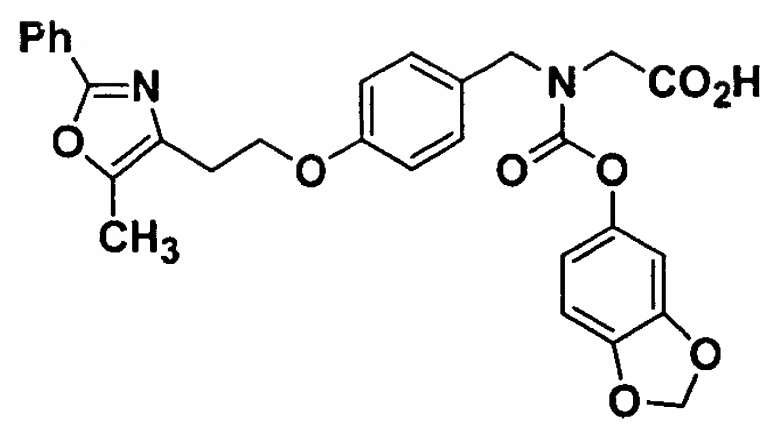
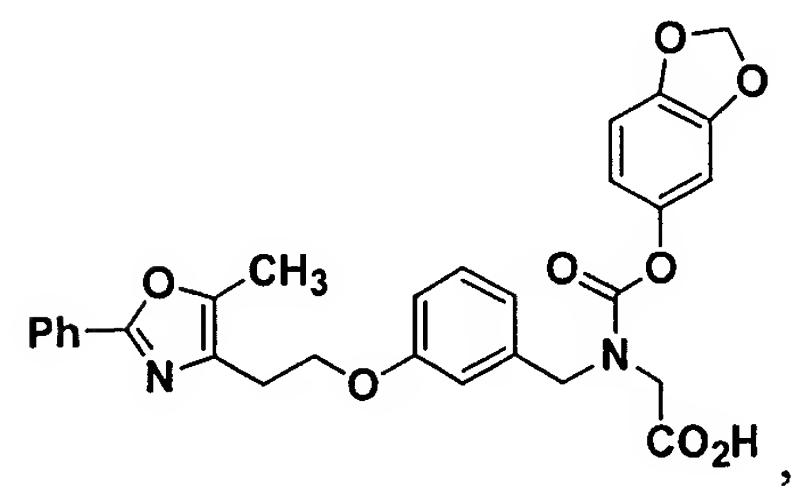
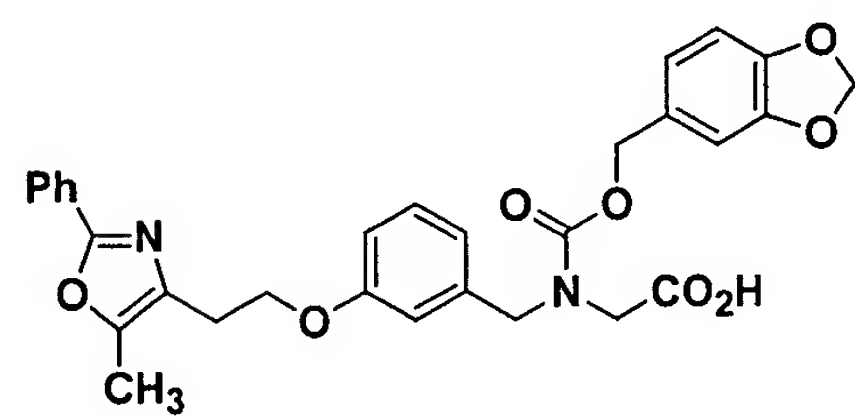
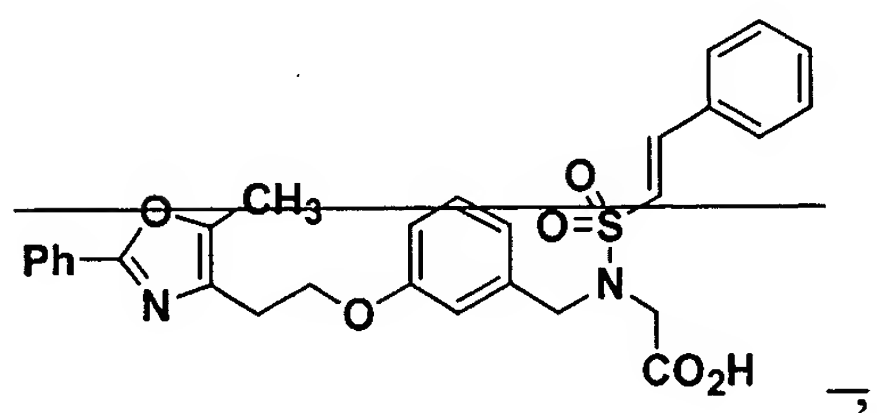
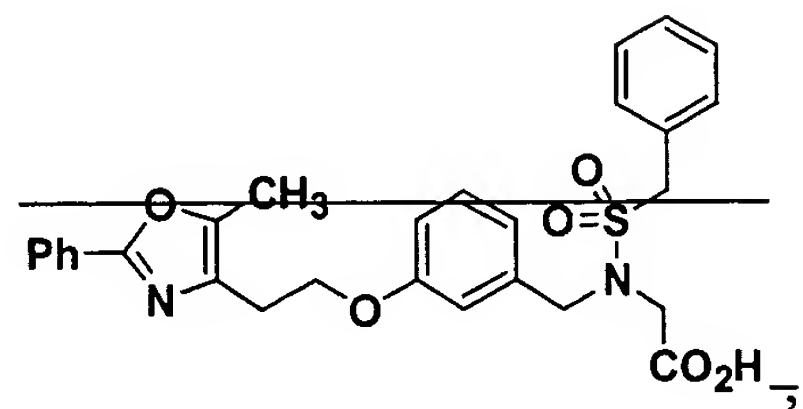
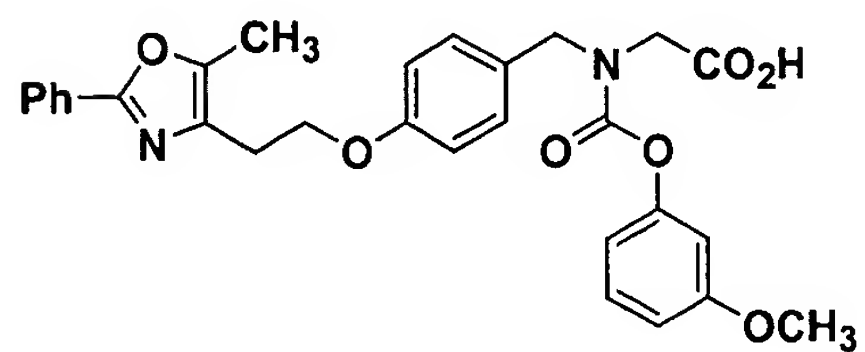
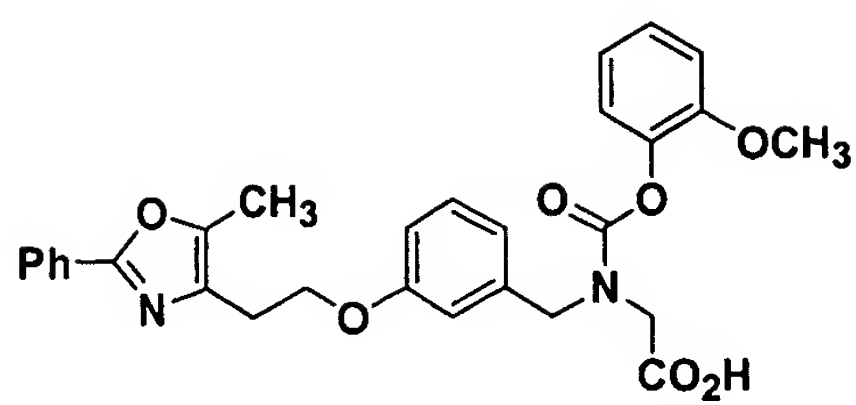
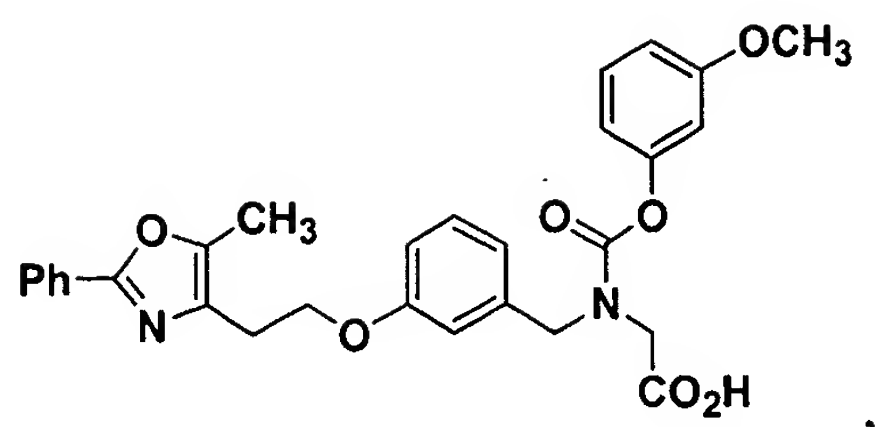
Claims 18 and 19 (cancelled)

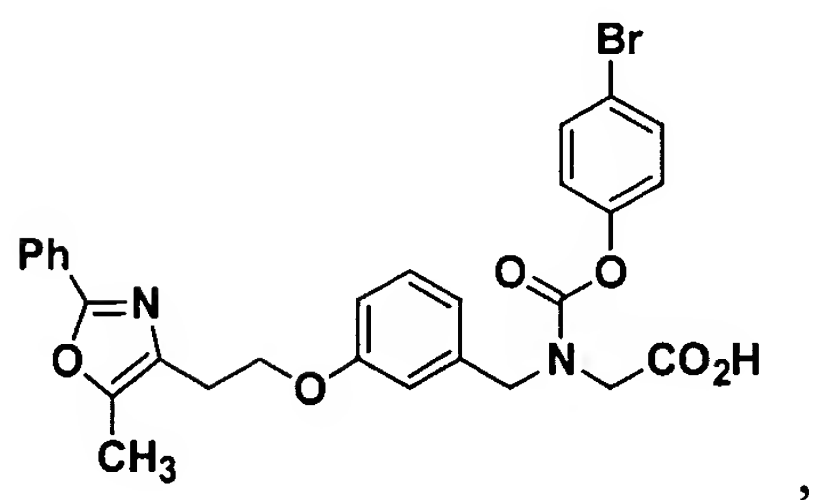
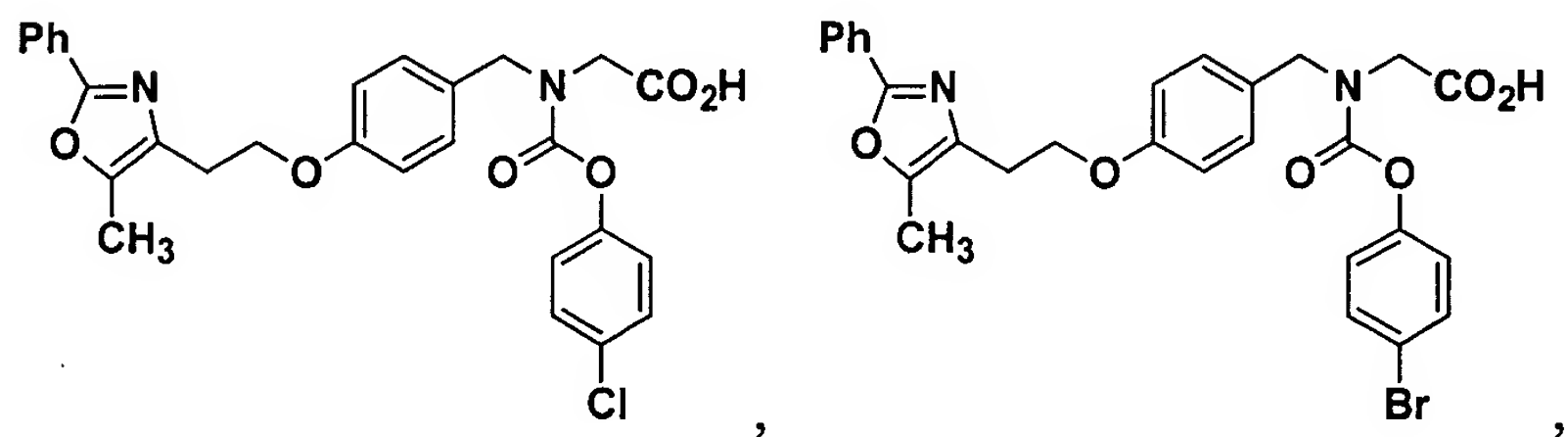
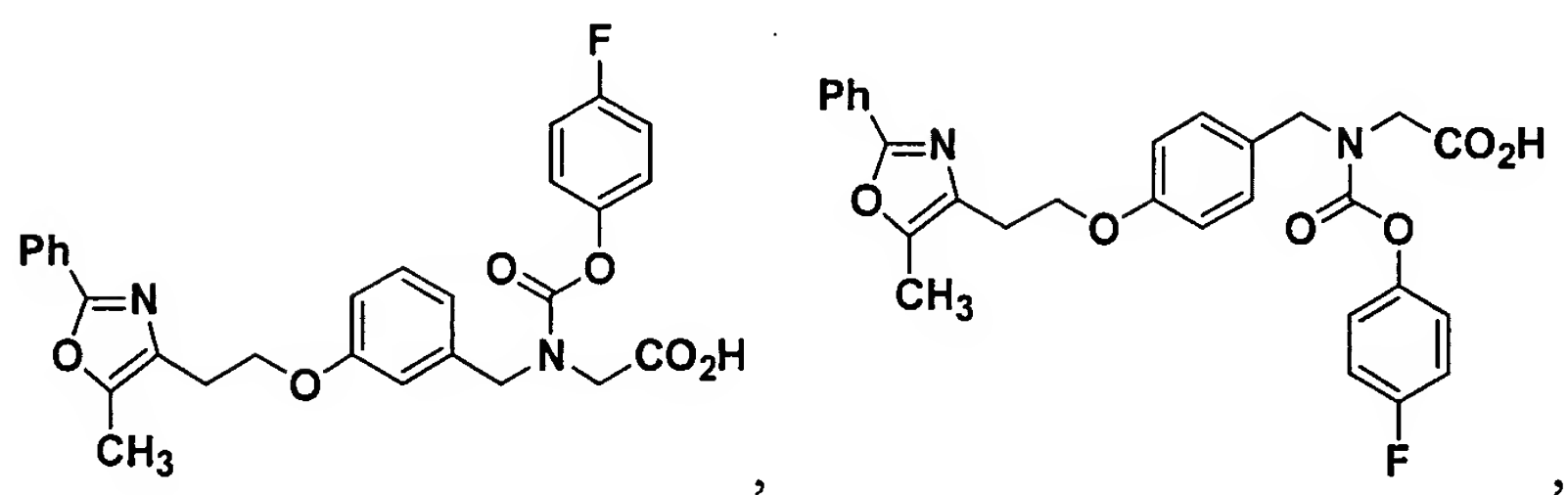
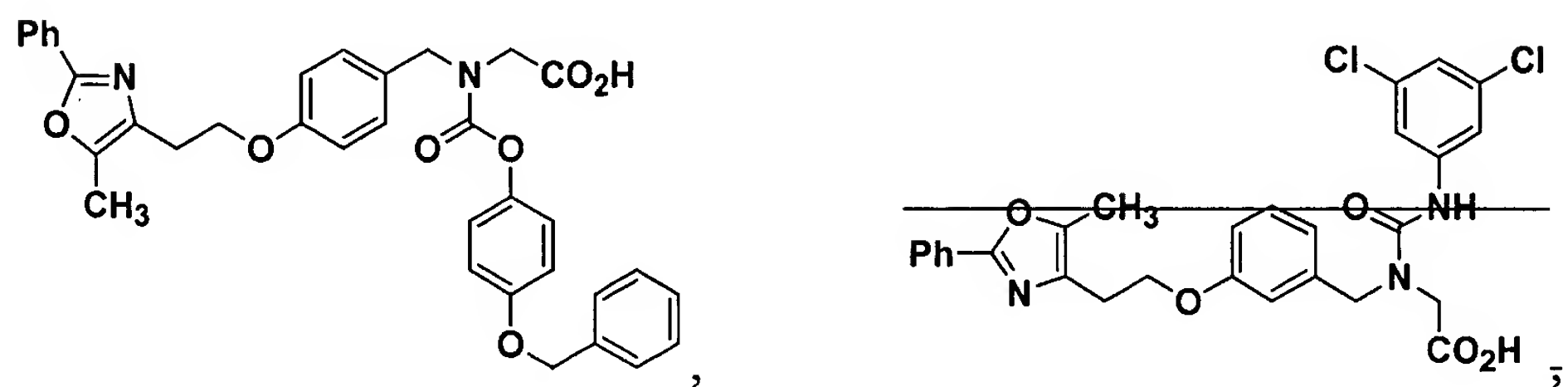
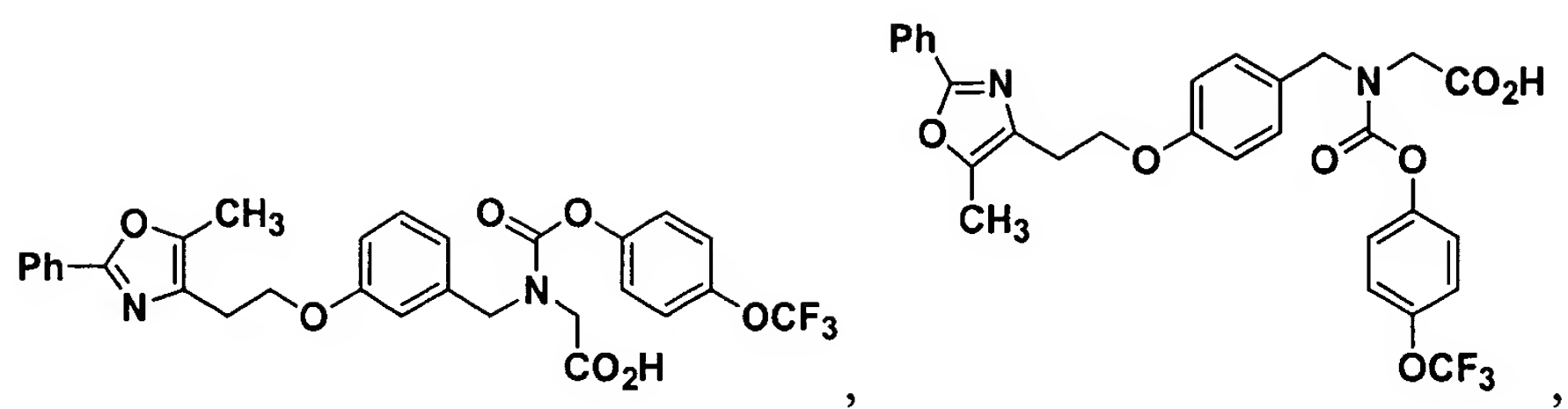
**Claim 20 (currently amended)**

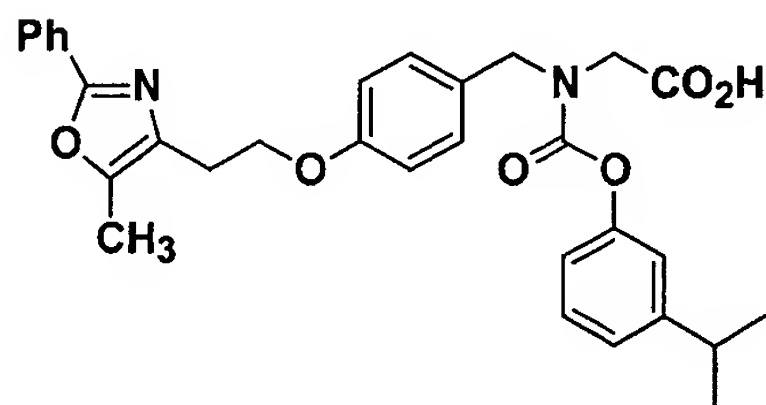
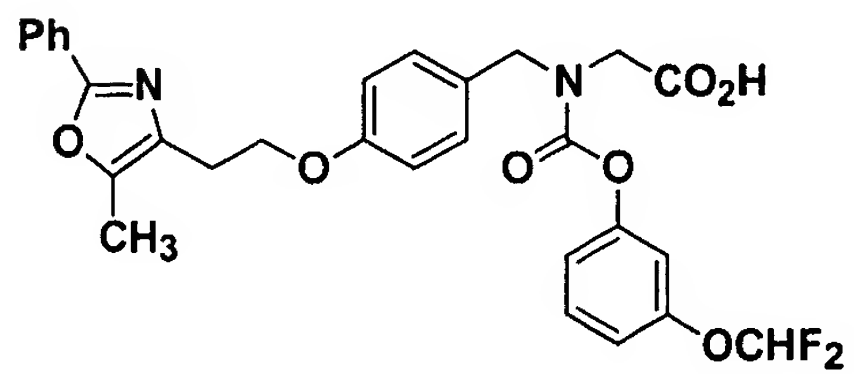
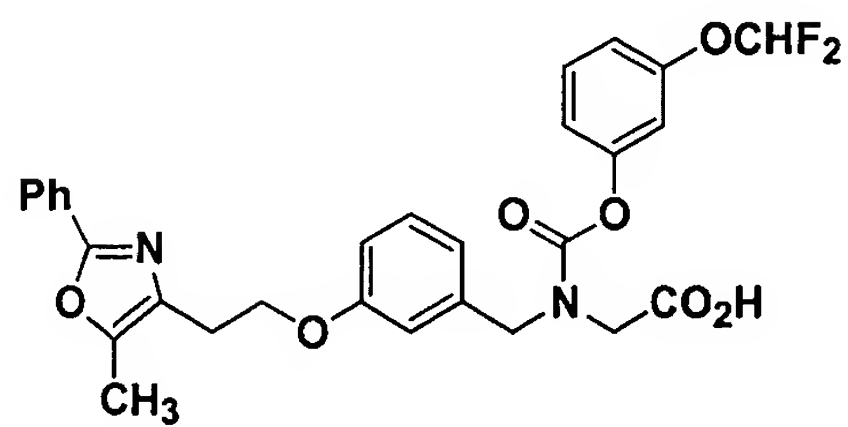
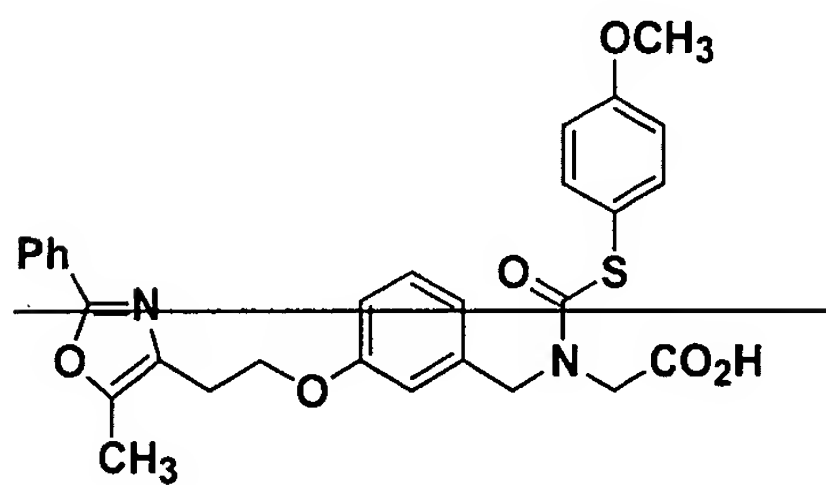
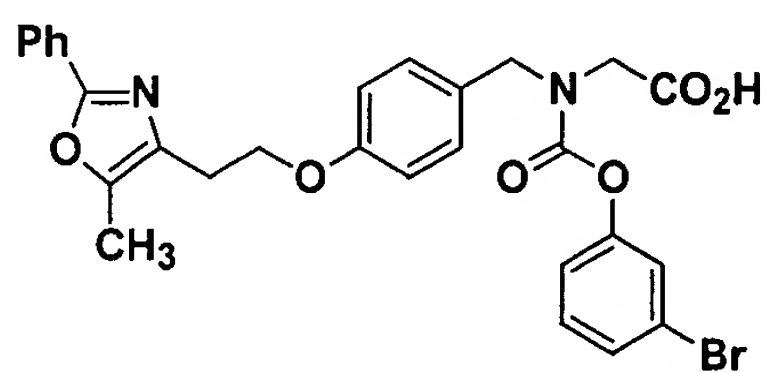
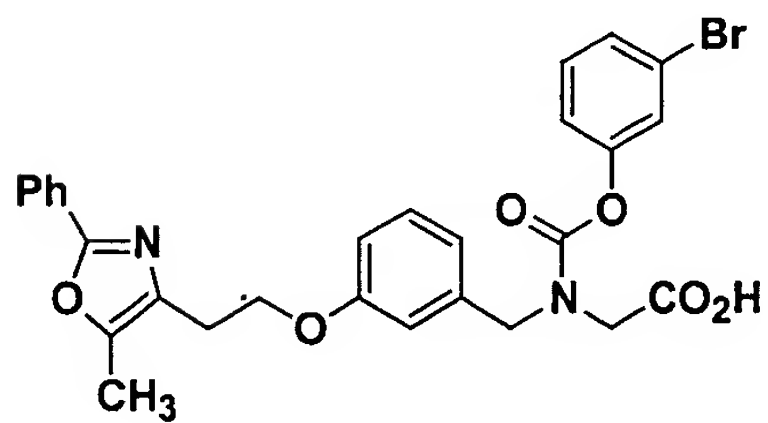
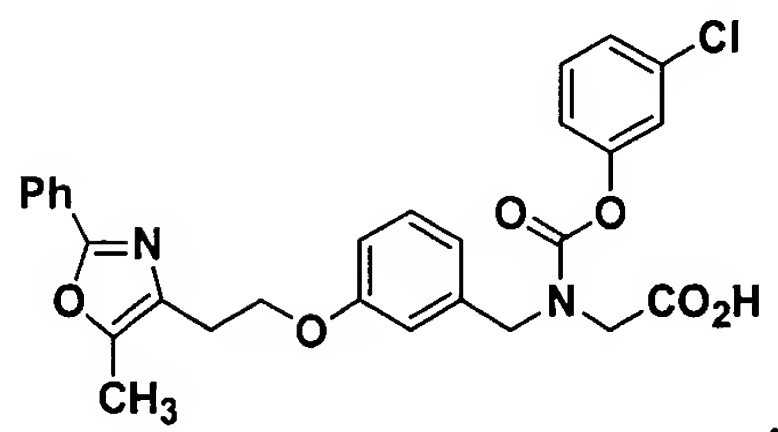
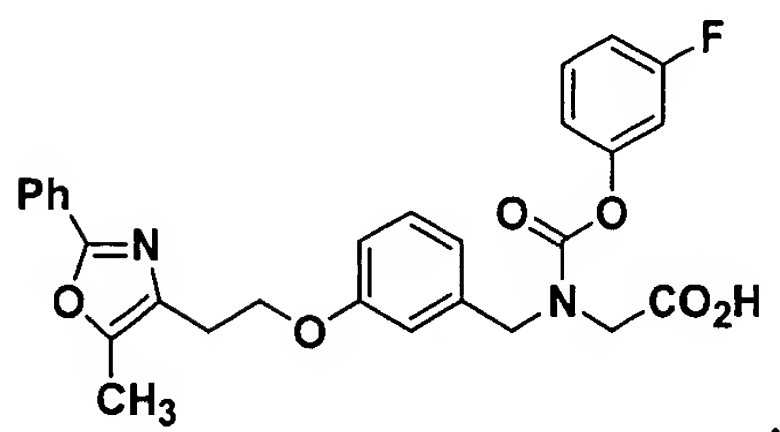
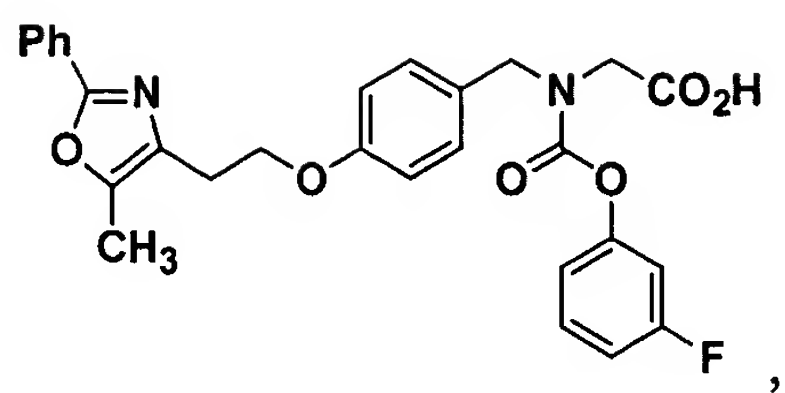
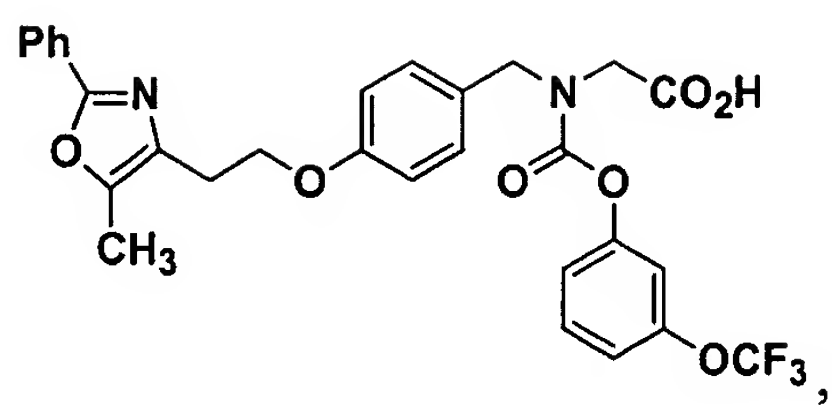
--20. The method as defined in Claim 34 wherein the compound employed has the structure

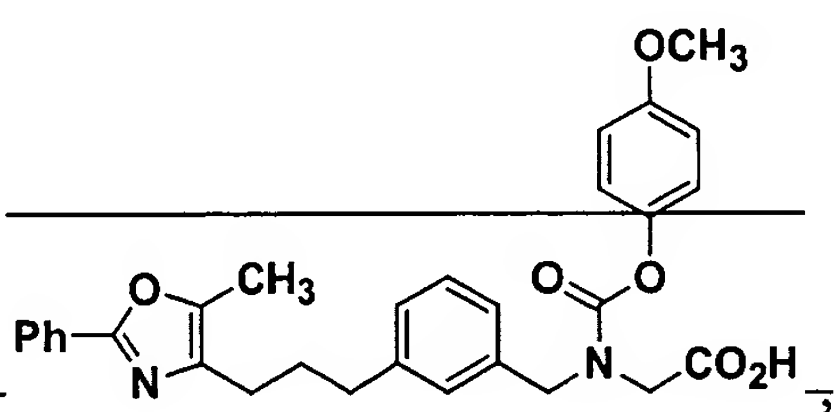
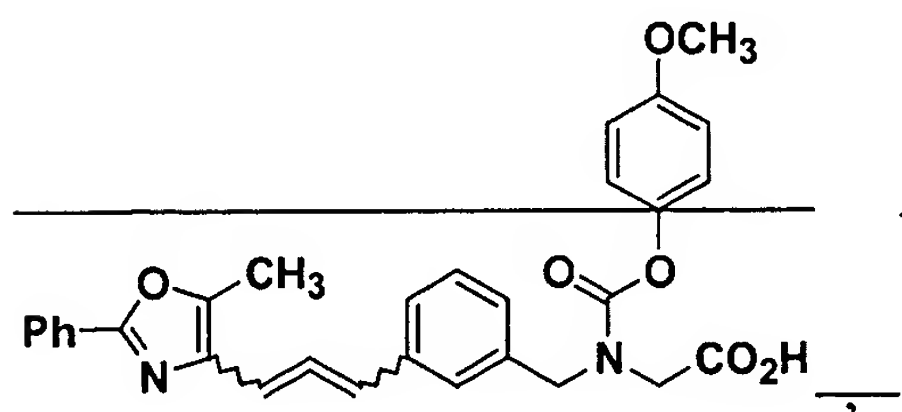
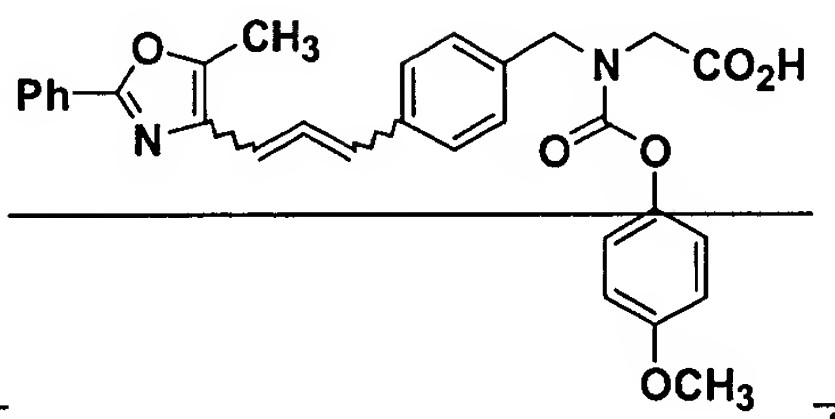
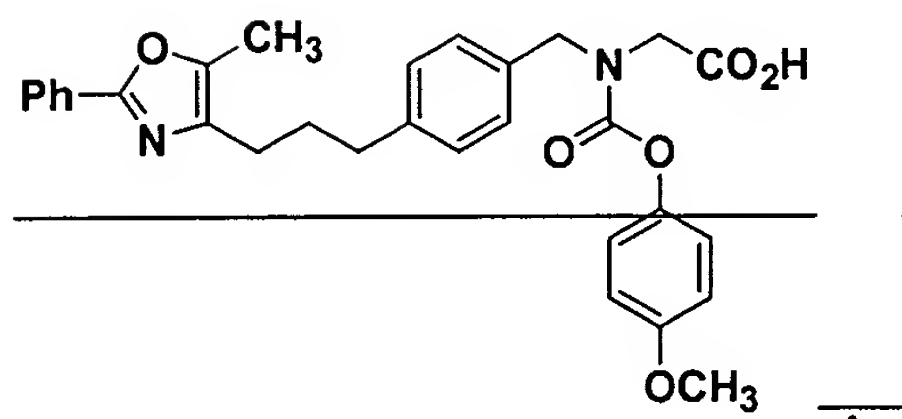
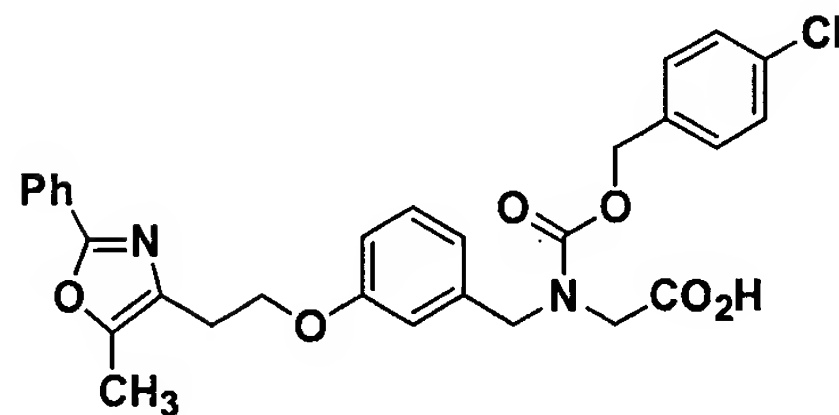
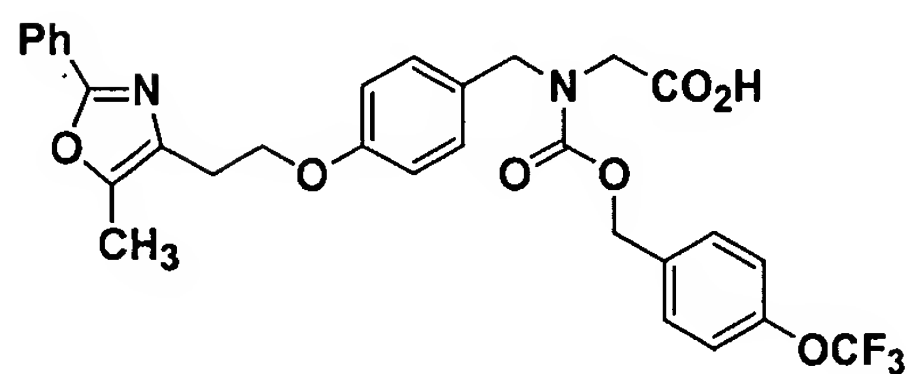
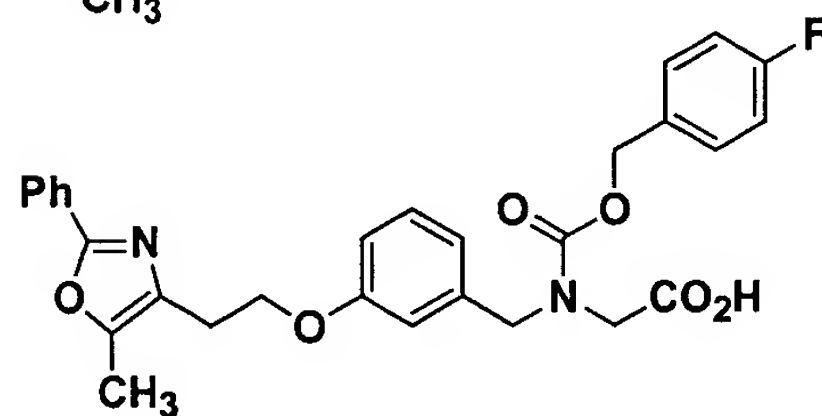
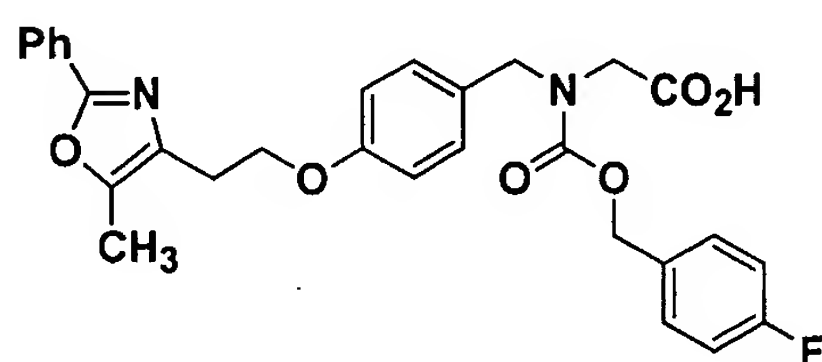
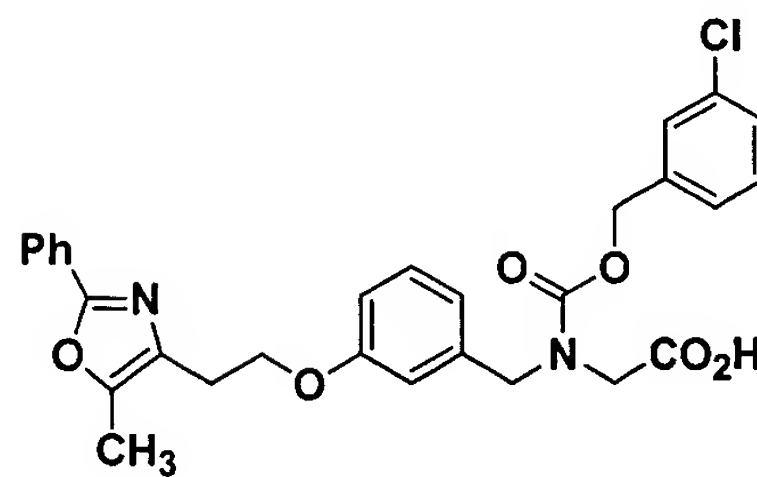
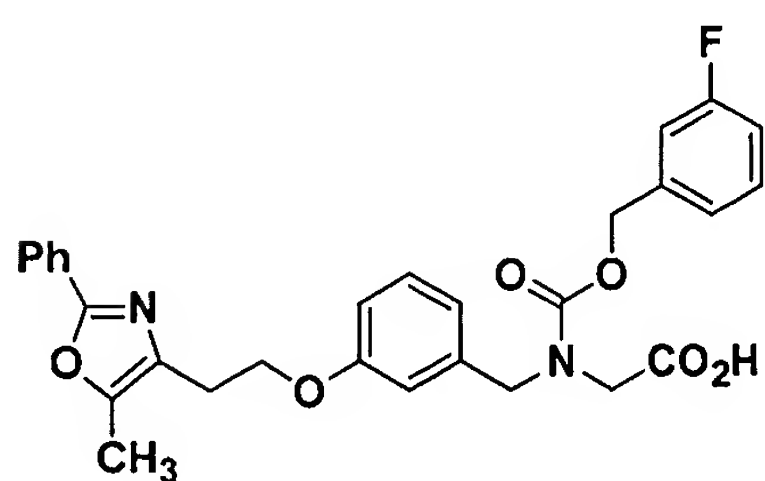
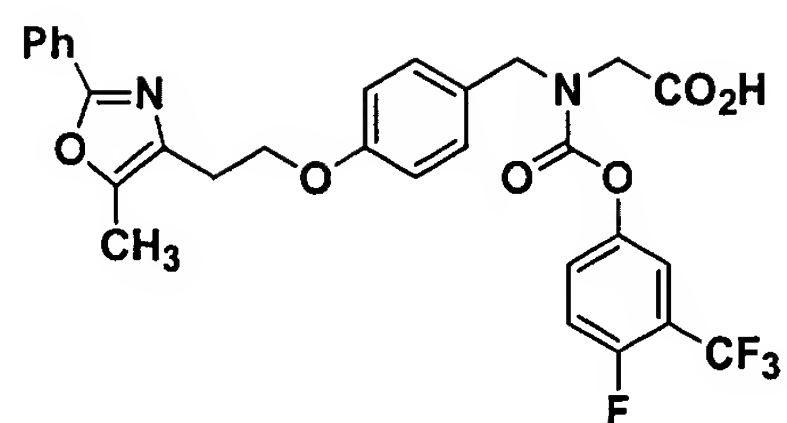
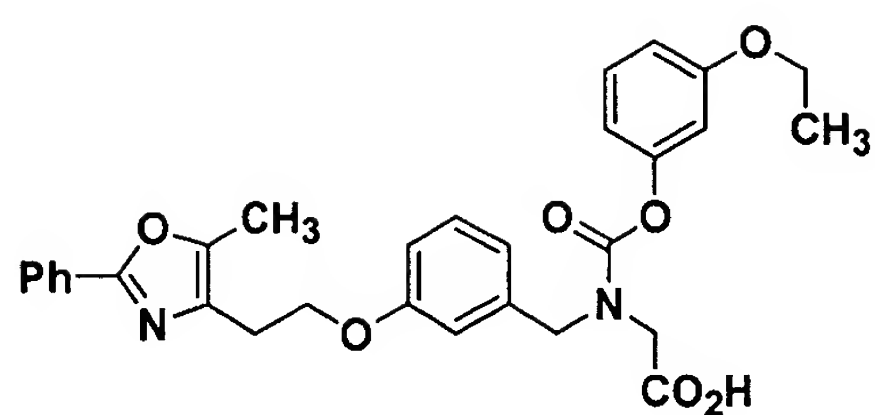


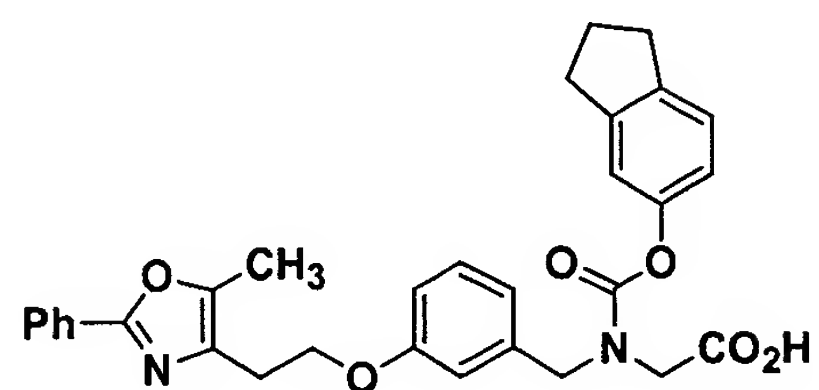
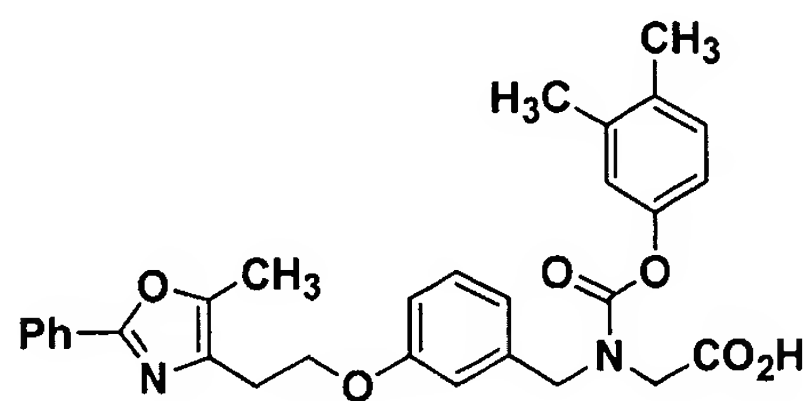
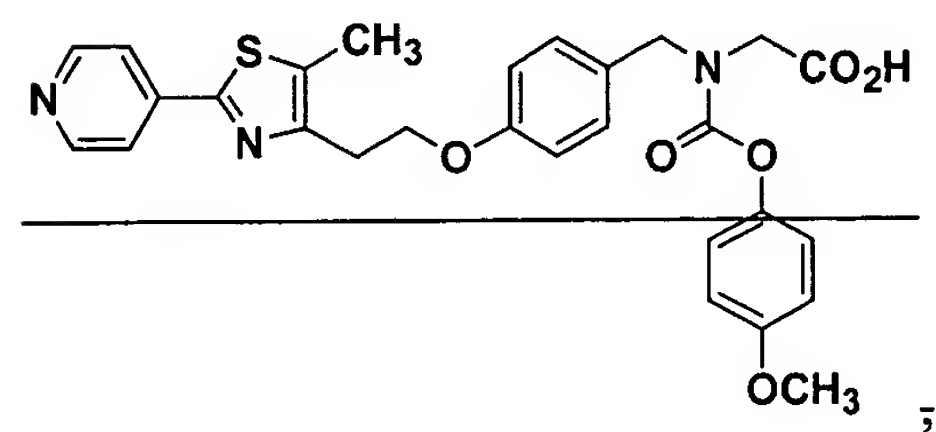
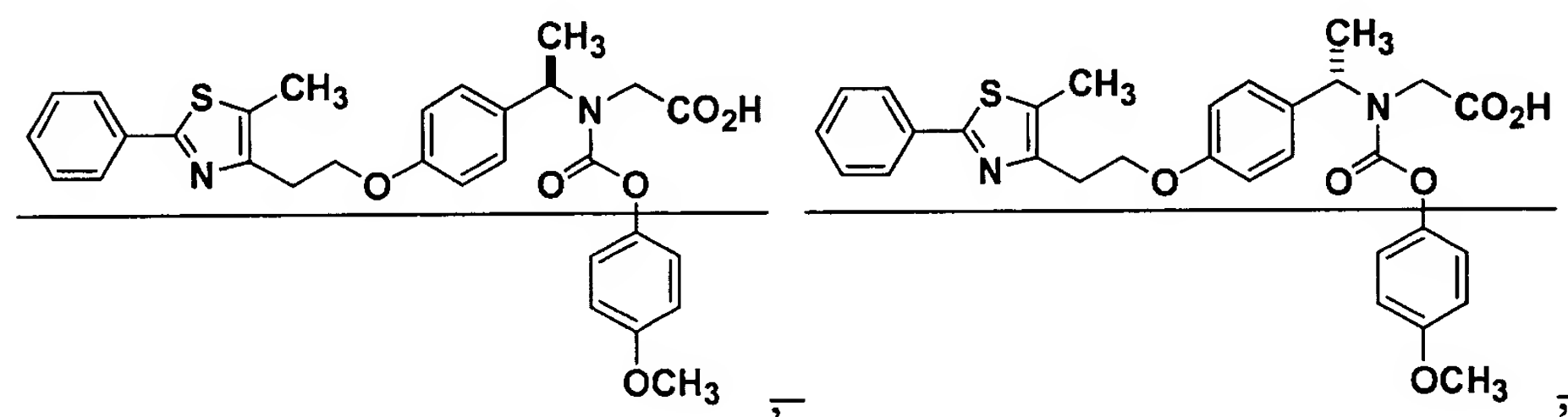
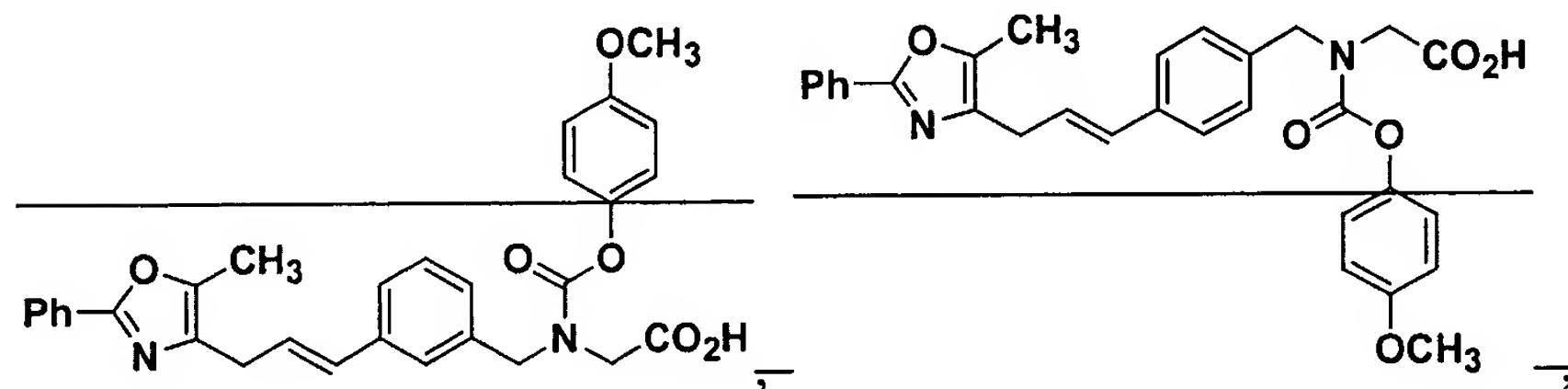
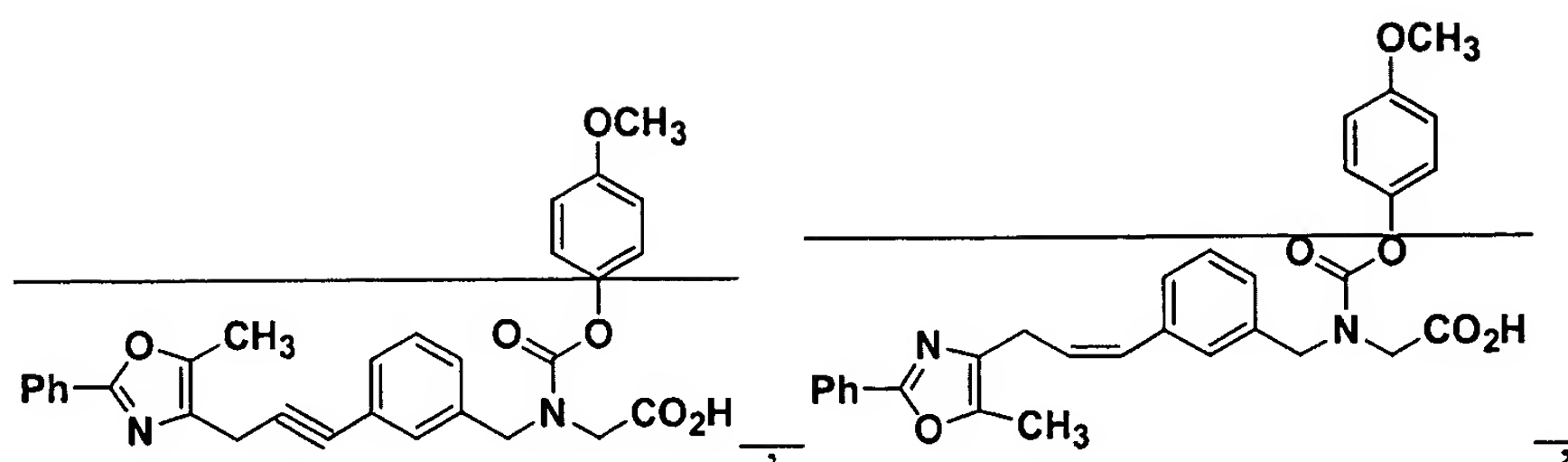


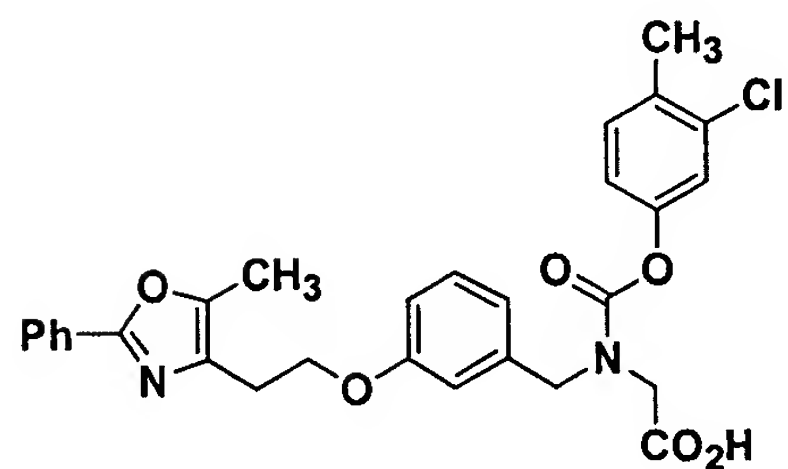
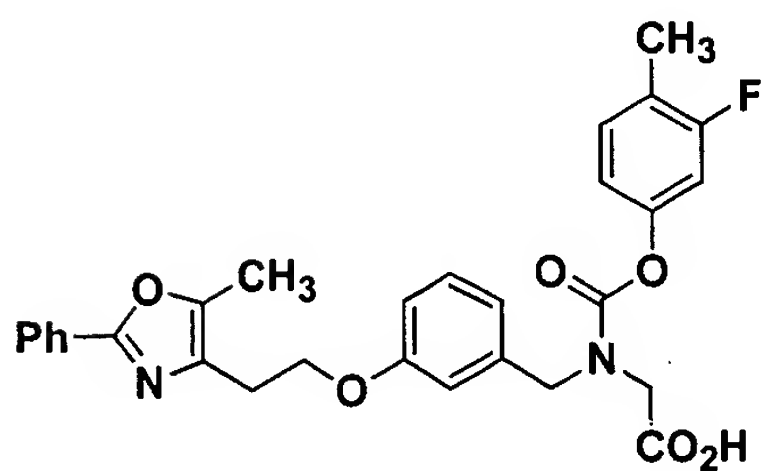
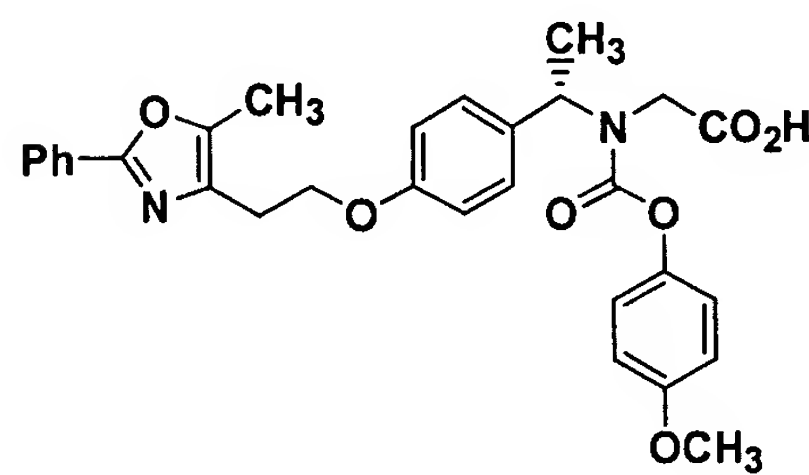
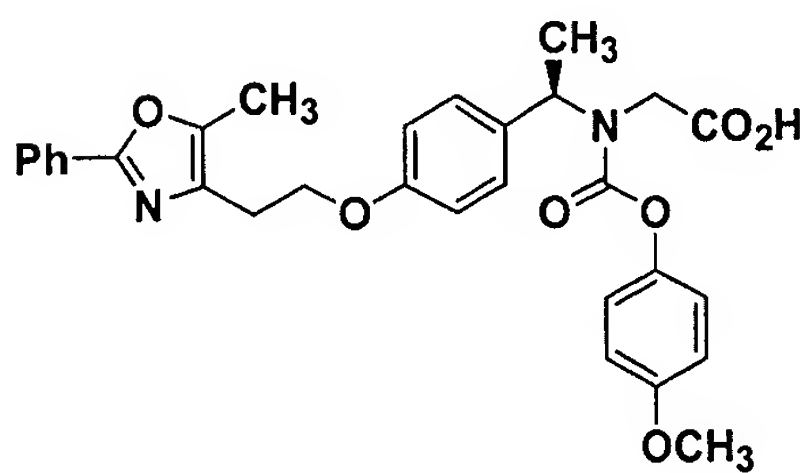
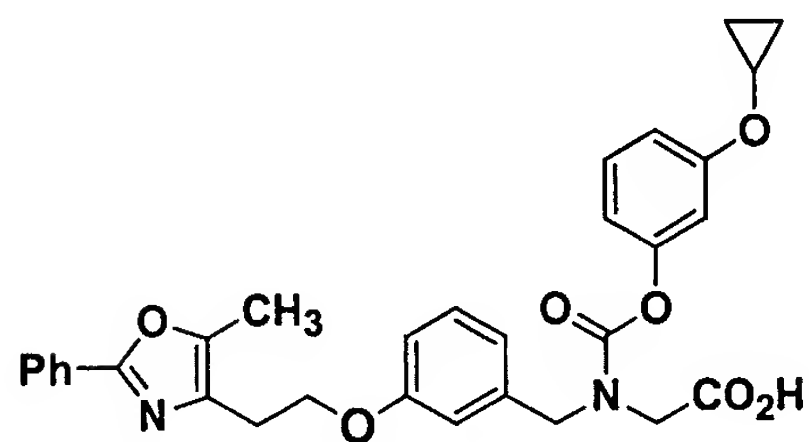
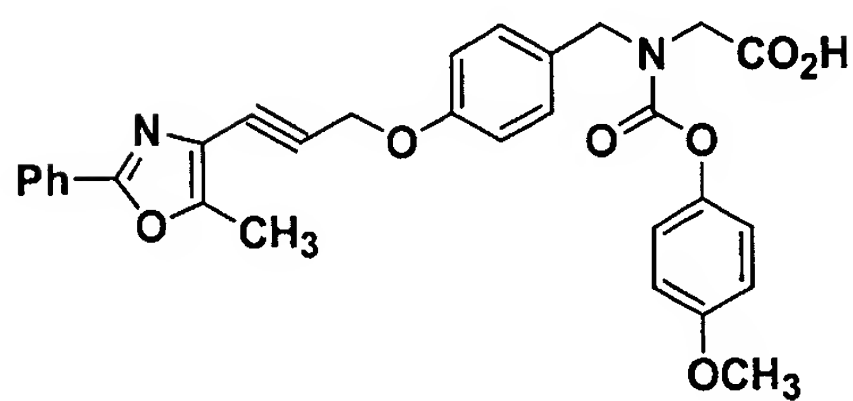
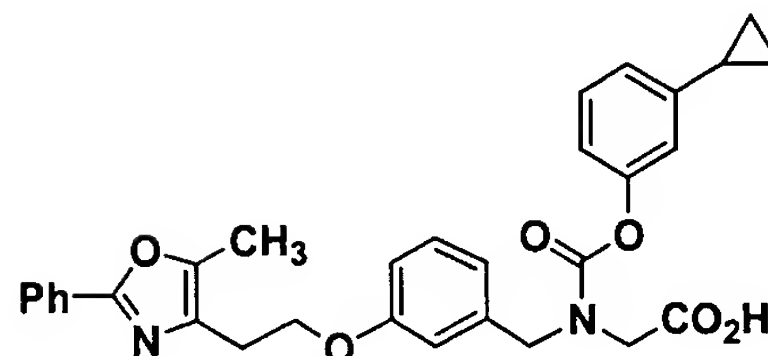
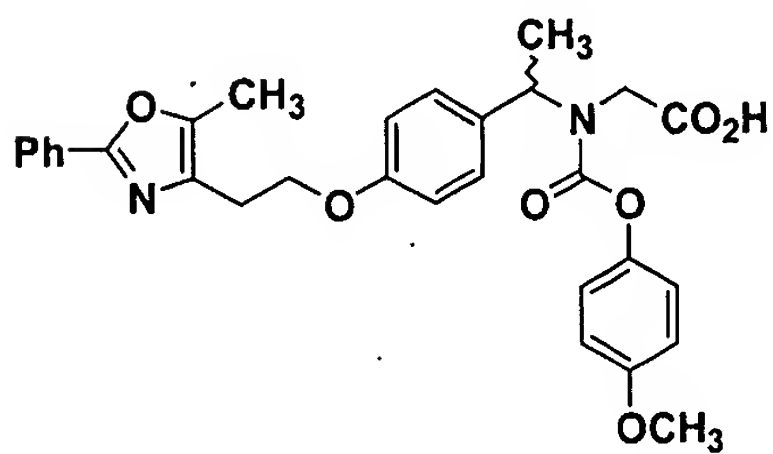
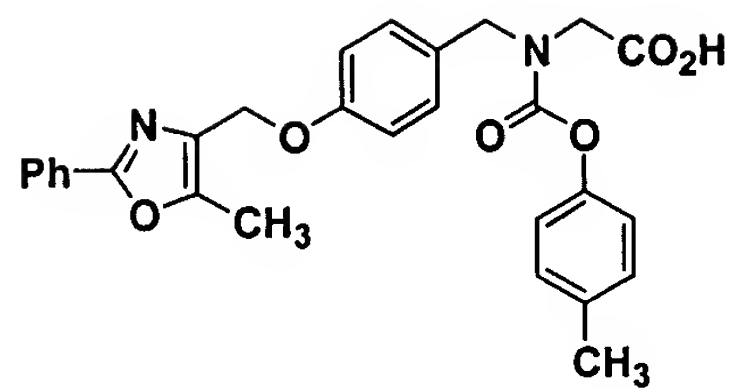
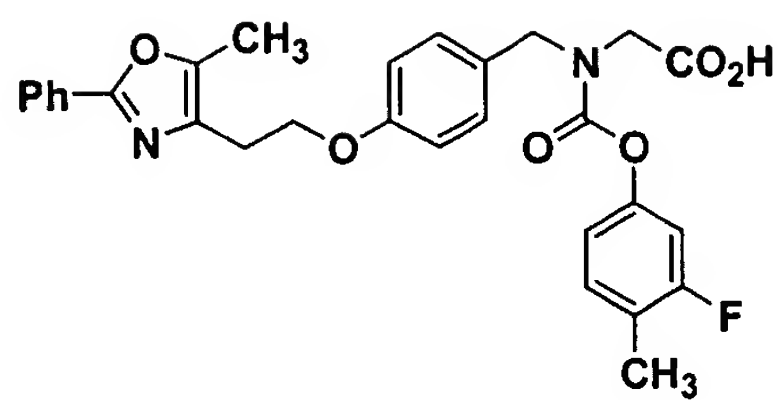


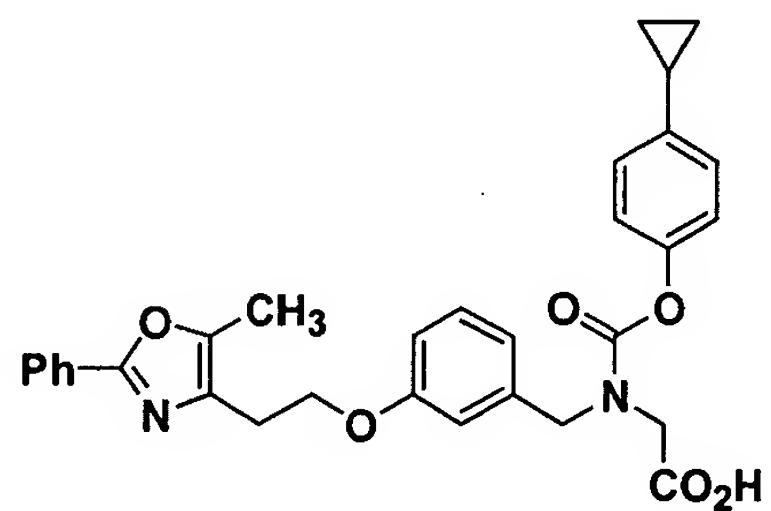
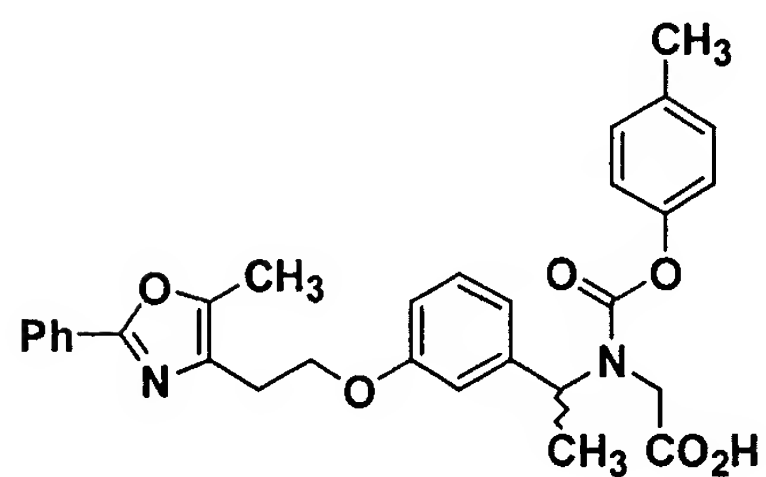
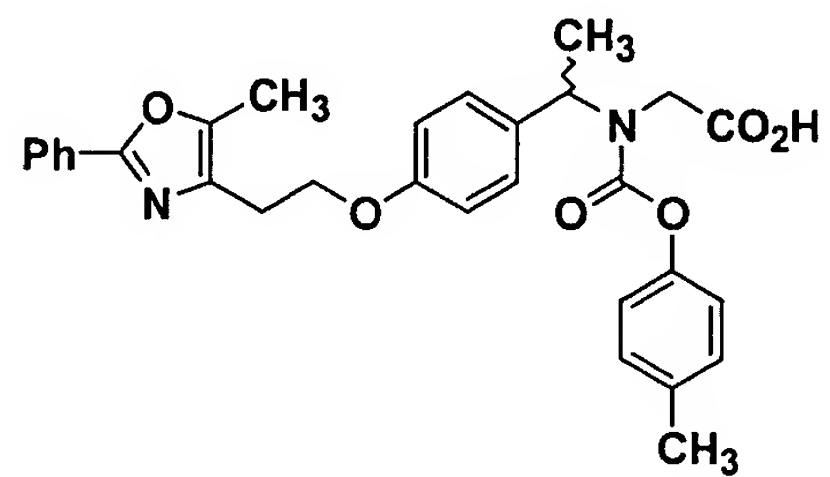
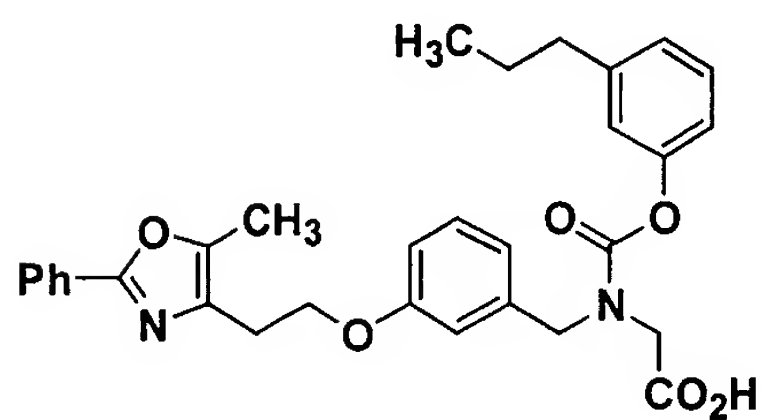
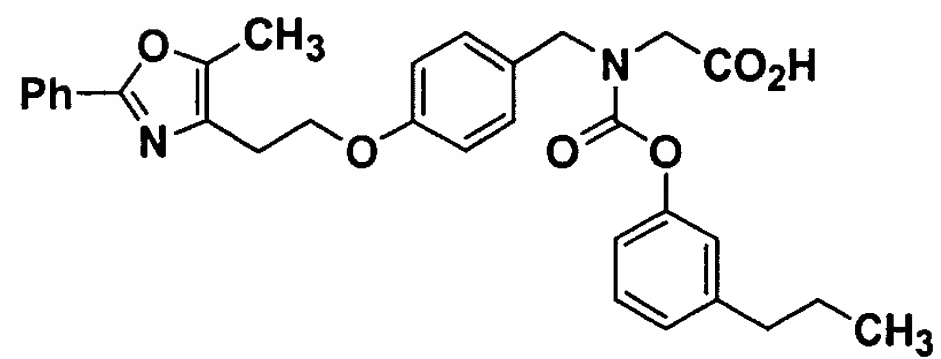
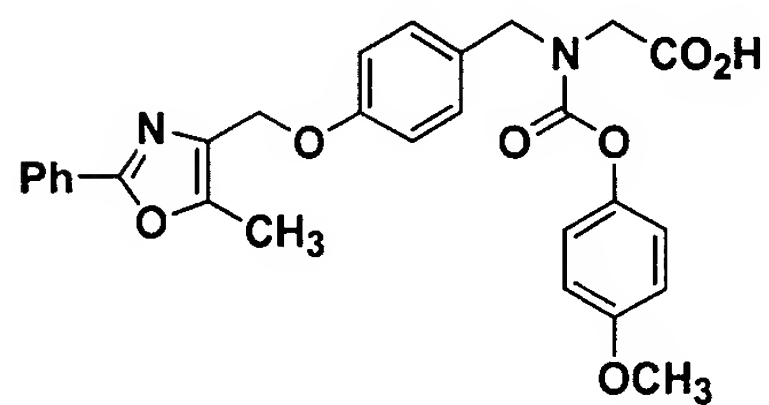
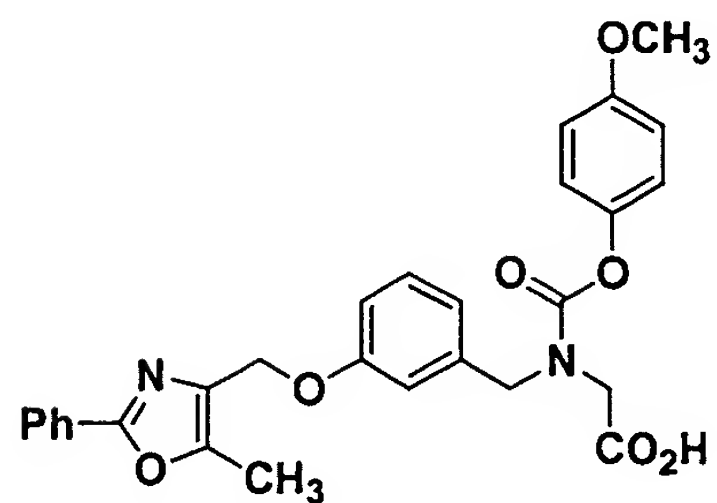
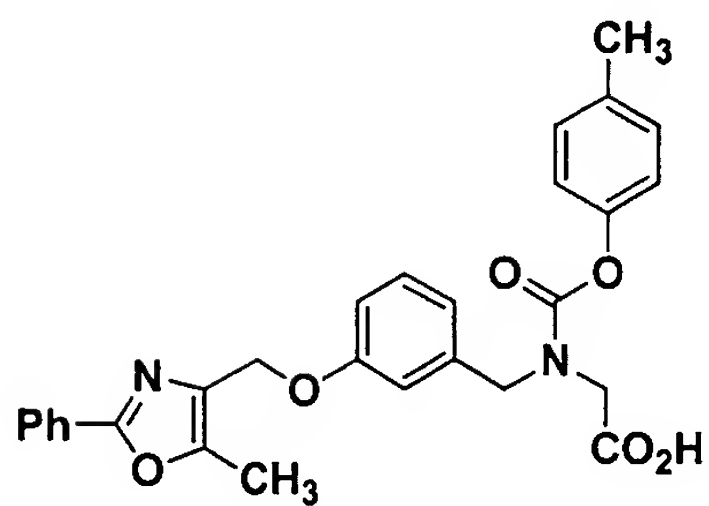
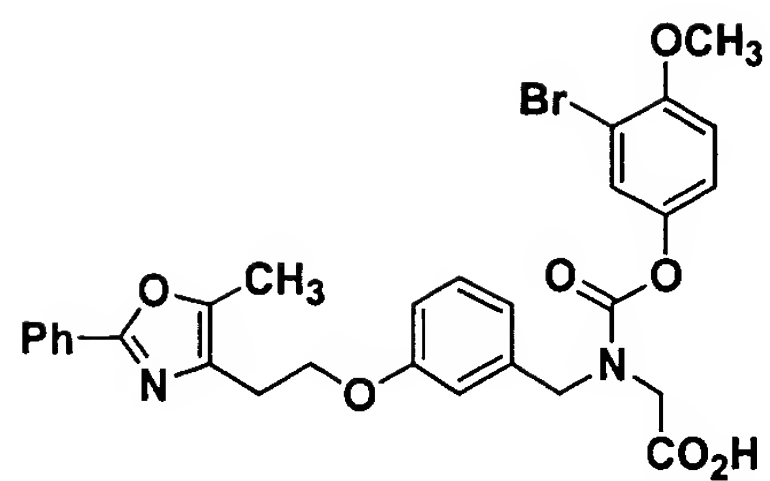
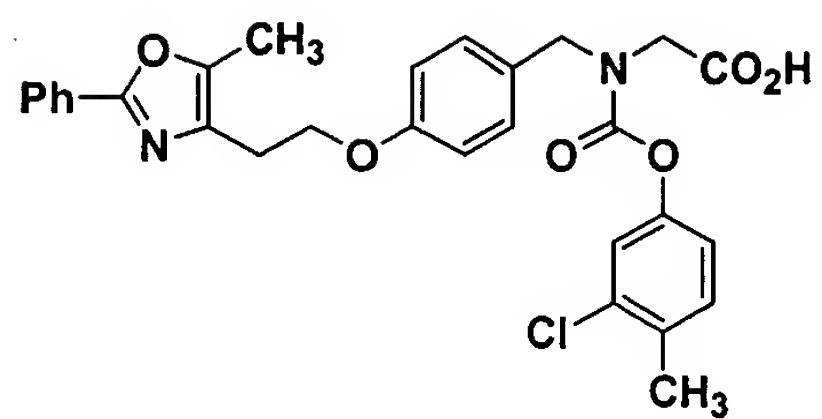


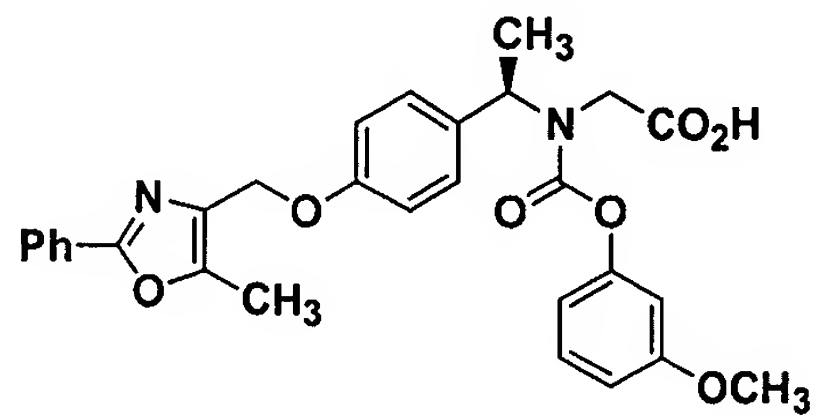
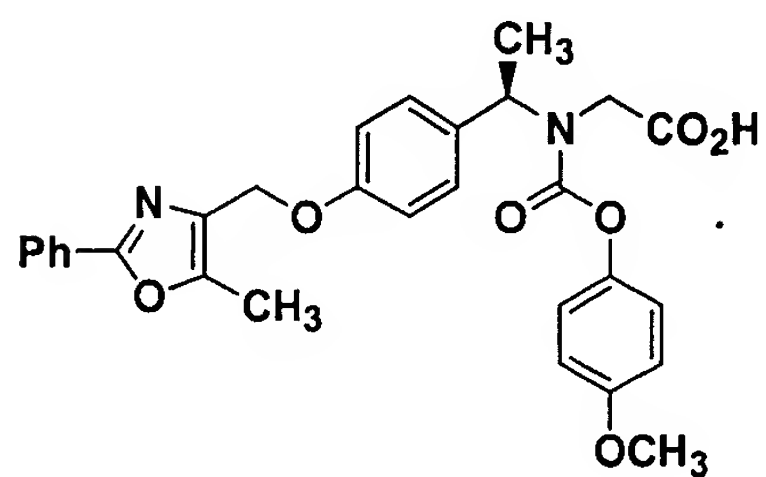
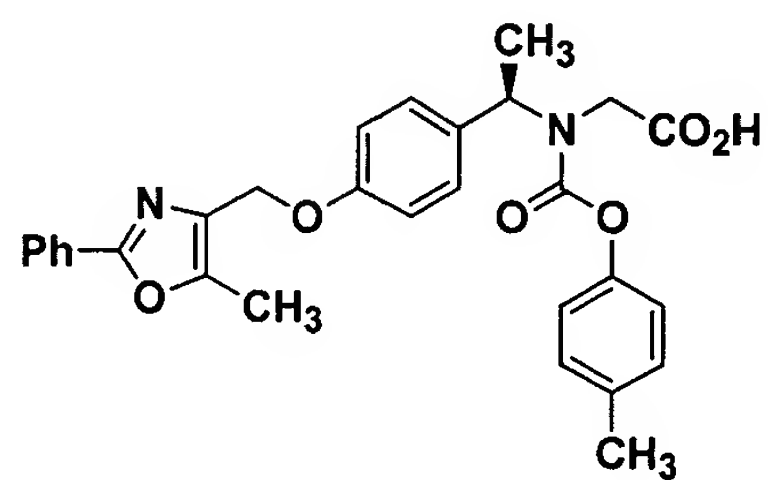
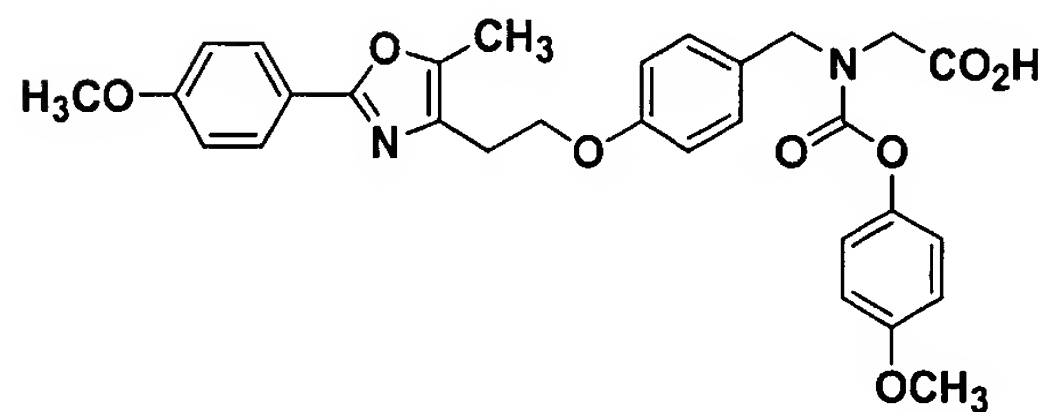
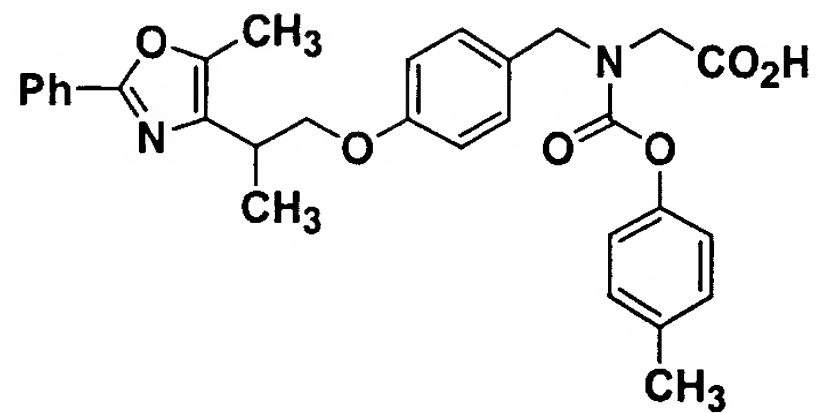
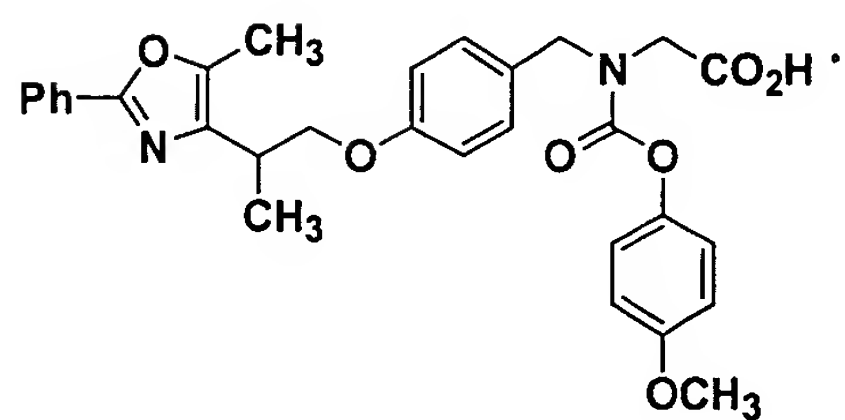
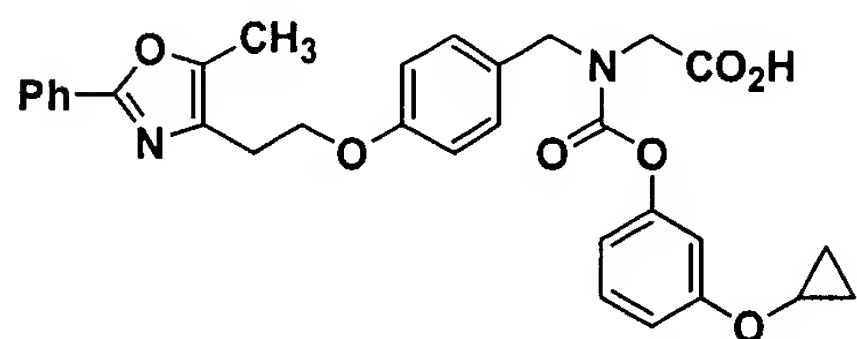
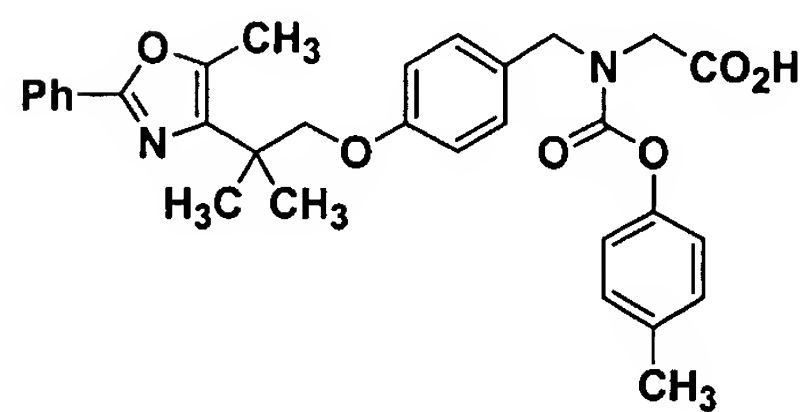
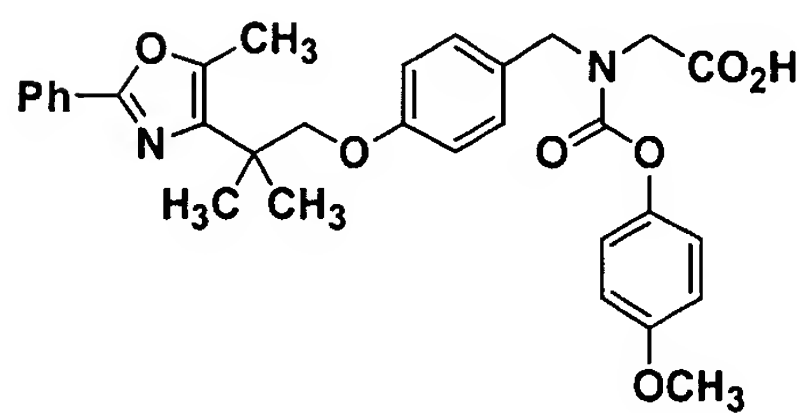
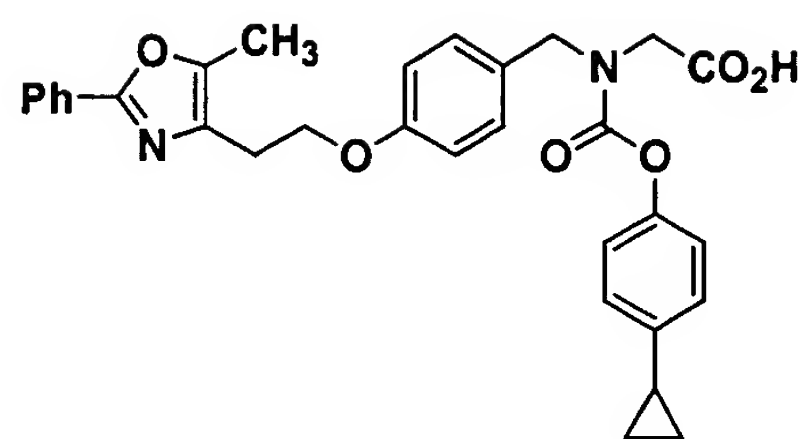
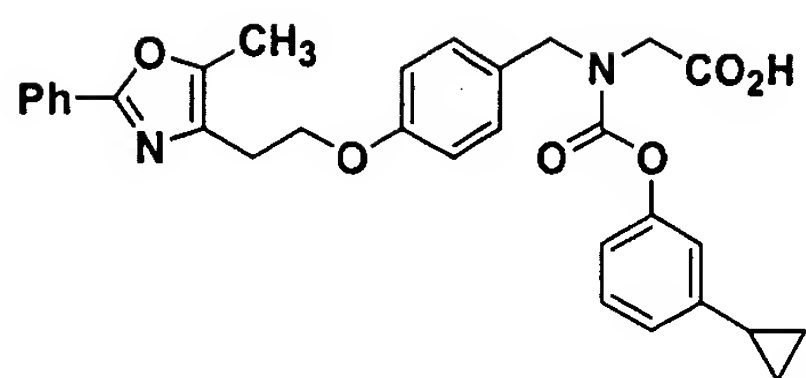




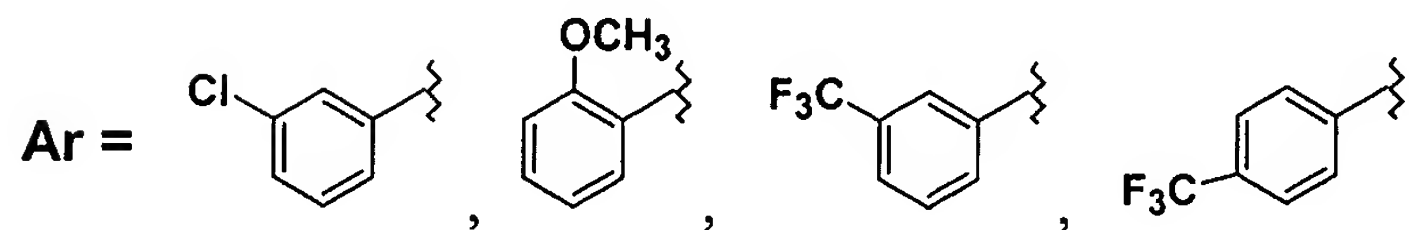
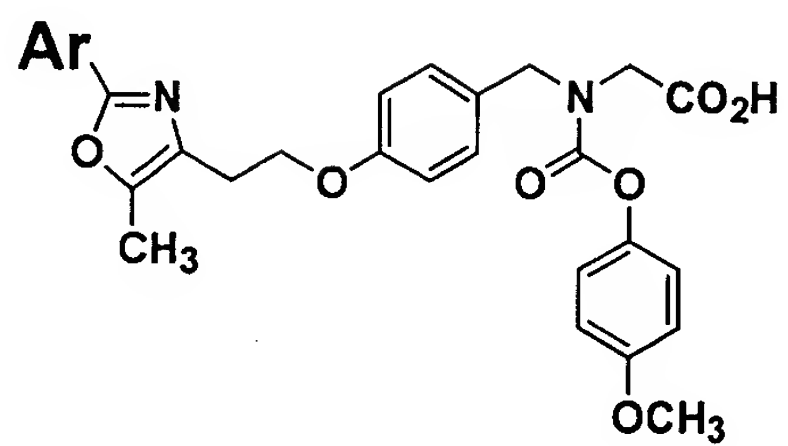
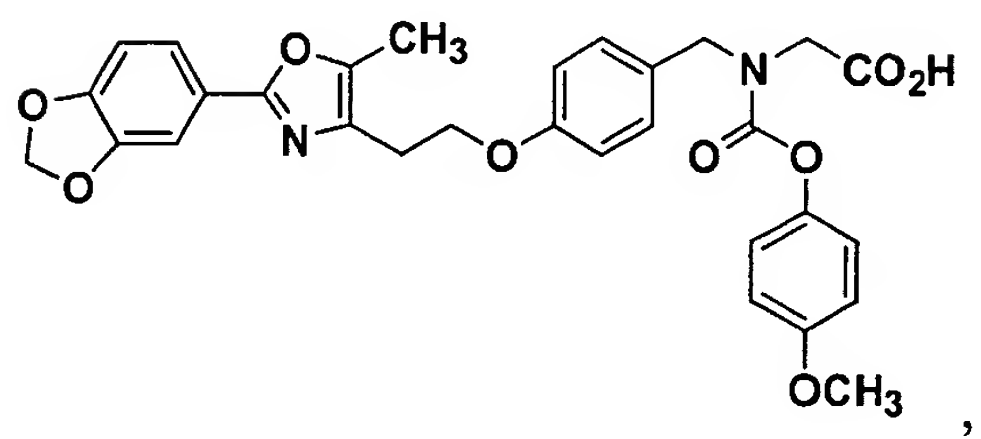
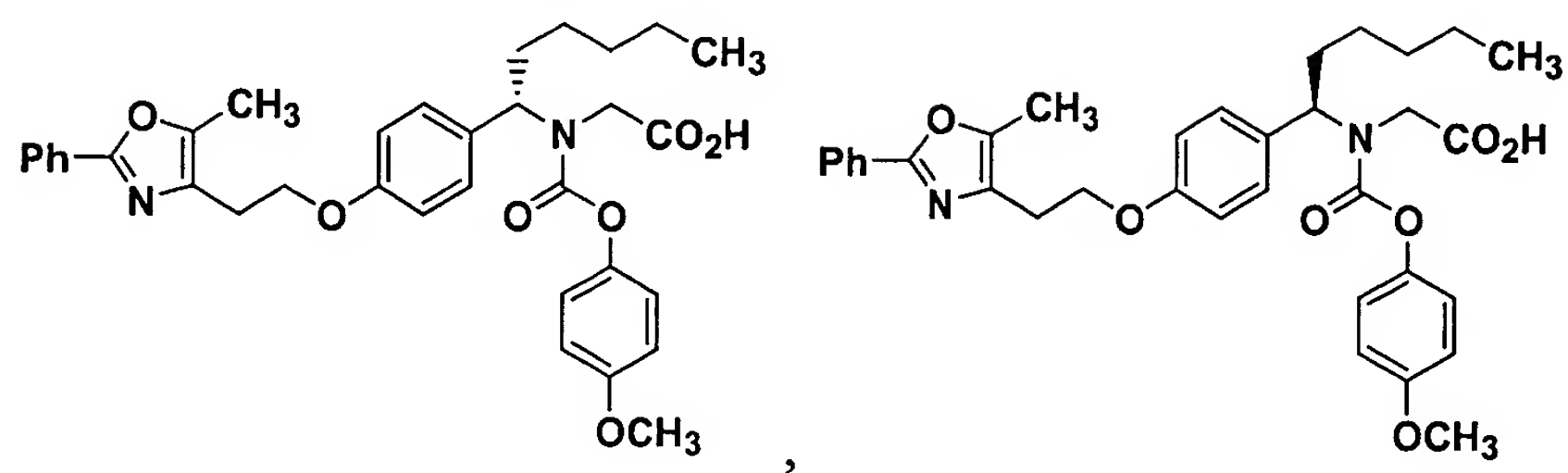
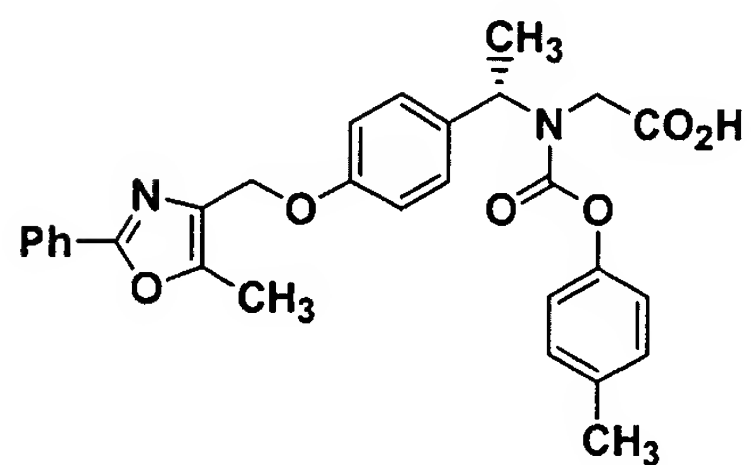
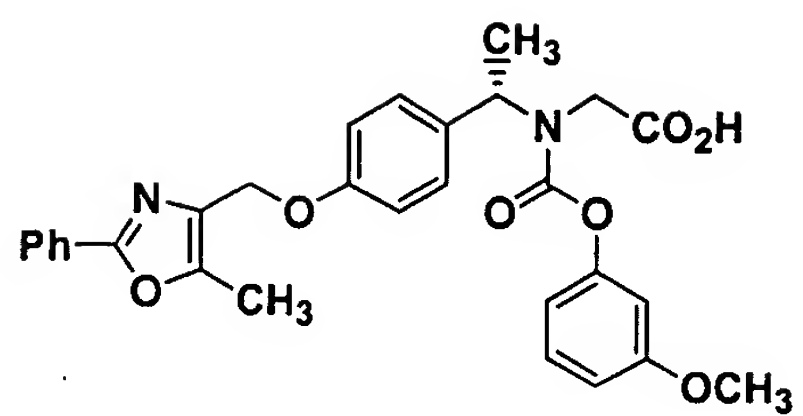
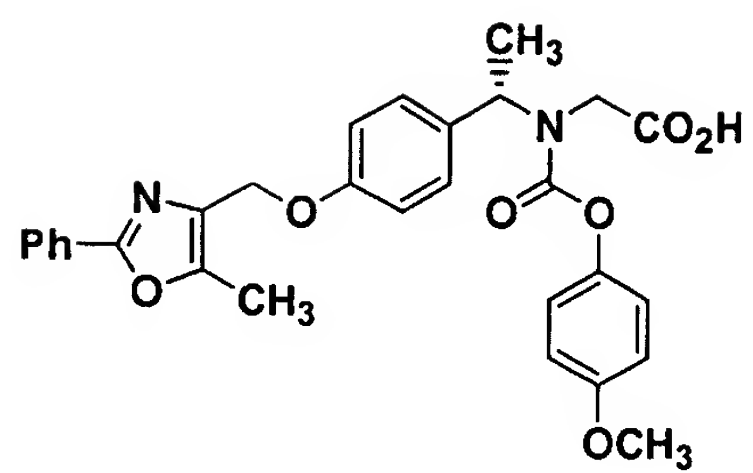


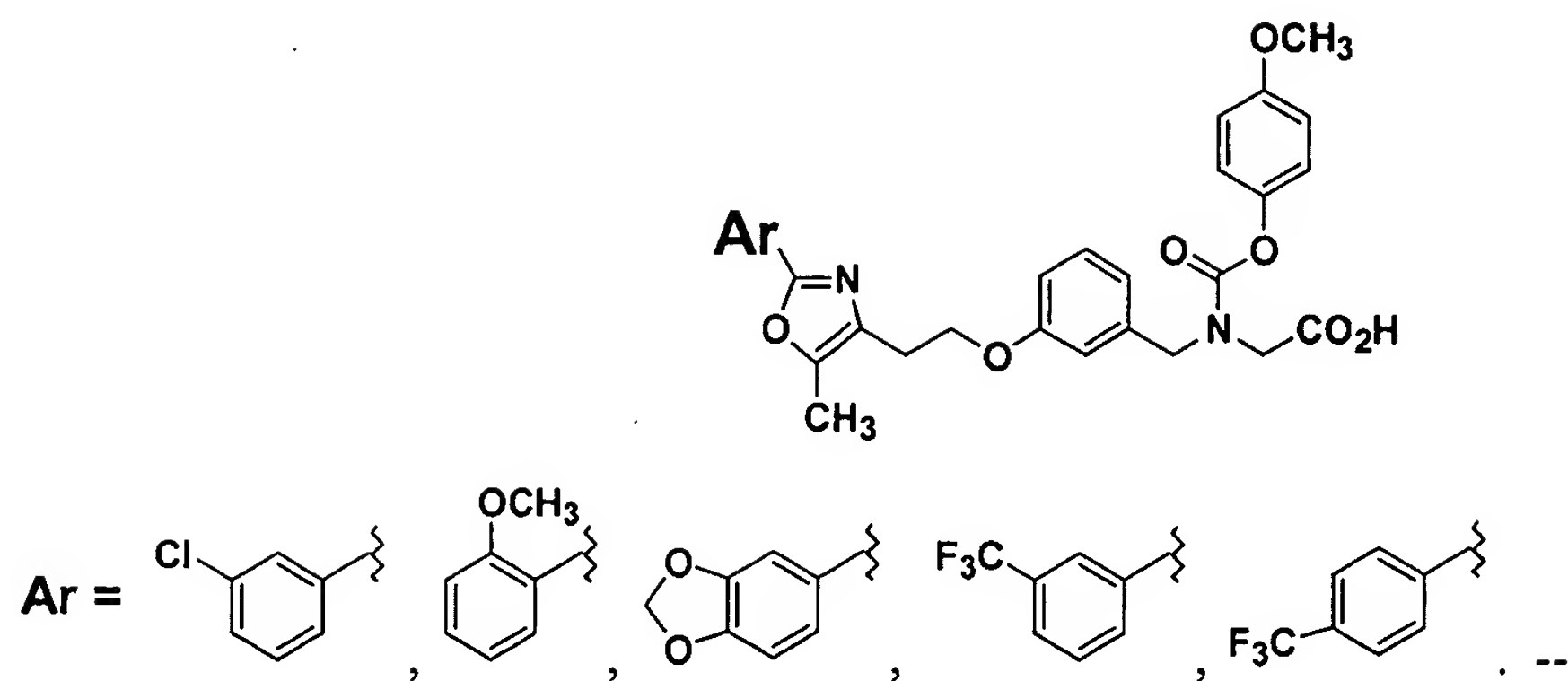






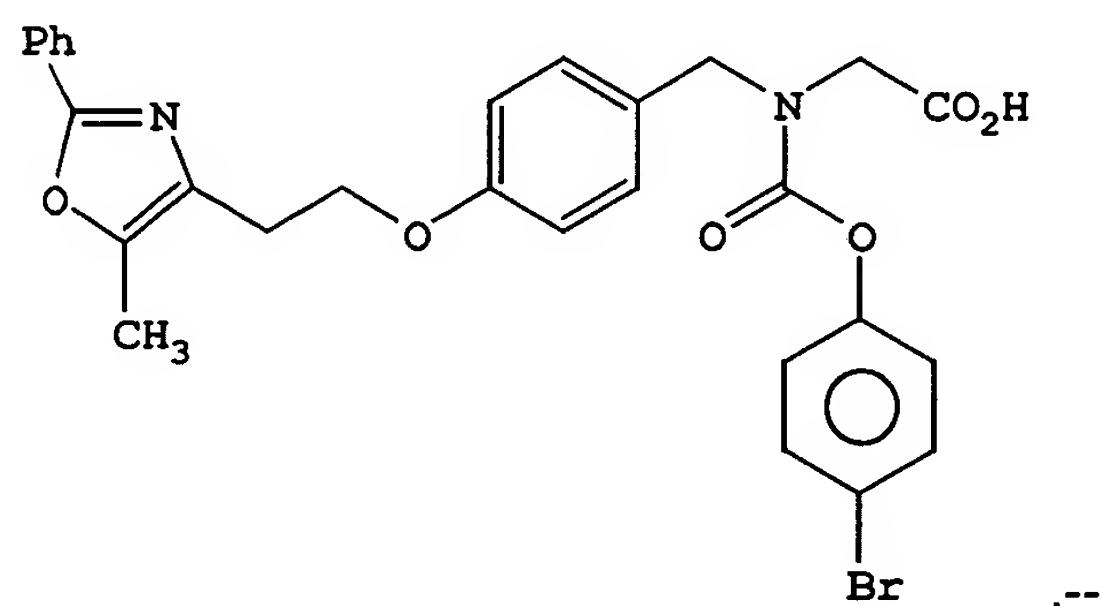






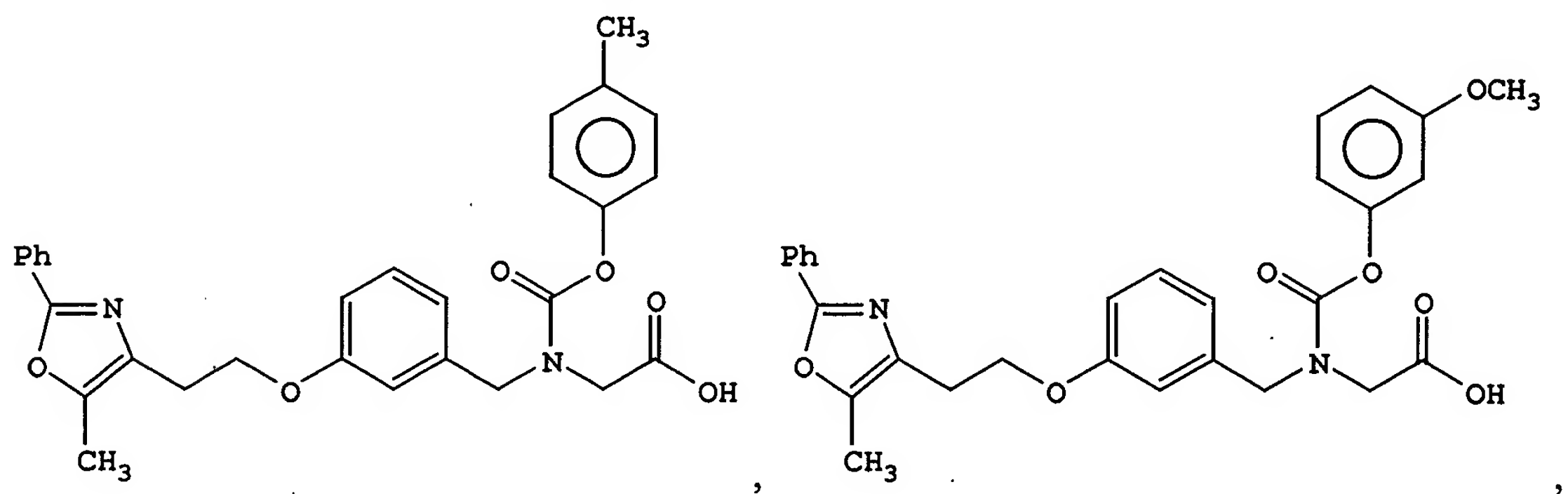
**Claim 21 (previously amended)**

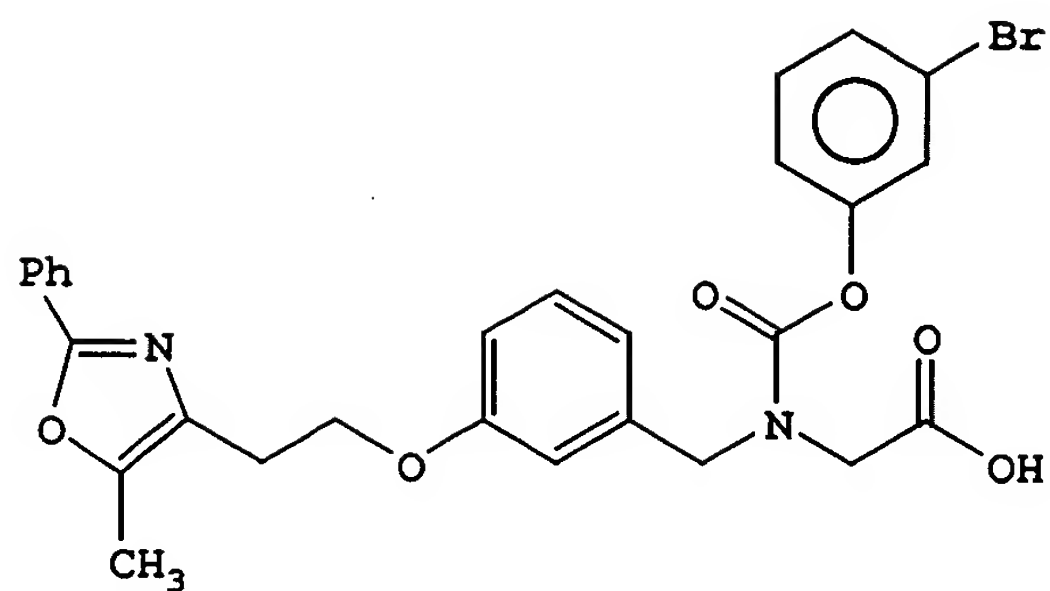
--21. The method as defined in Claim 55 wherein the compound employed has the structure



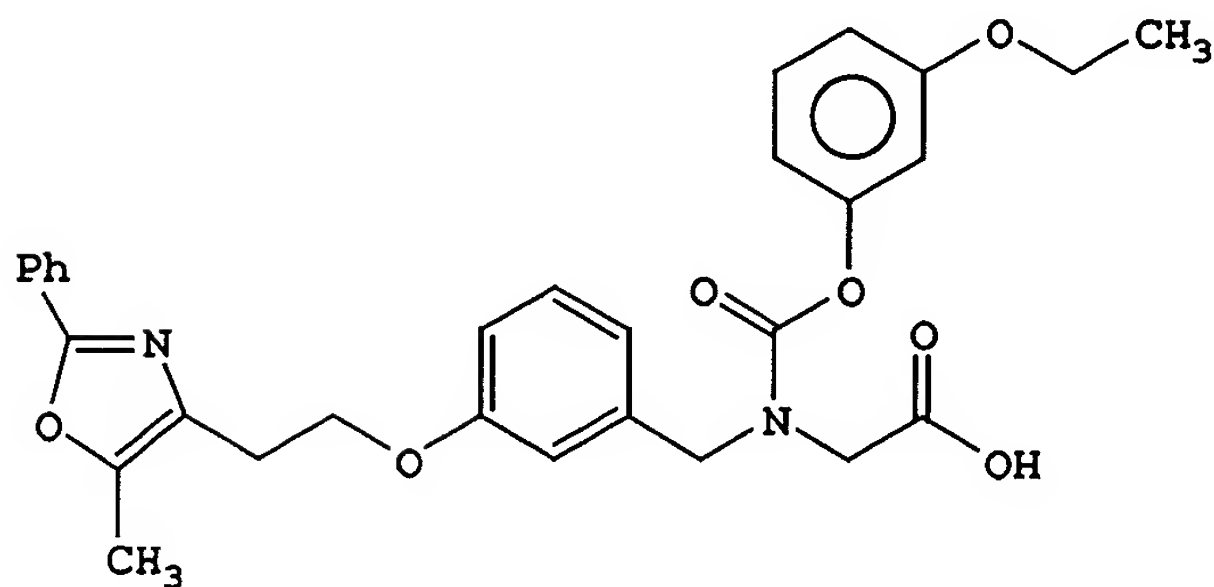
**Claim 22 (previously amended)**

--22. The method as defined in Claim 55 wherein the compound employed has the structure





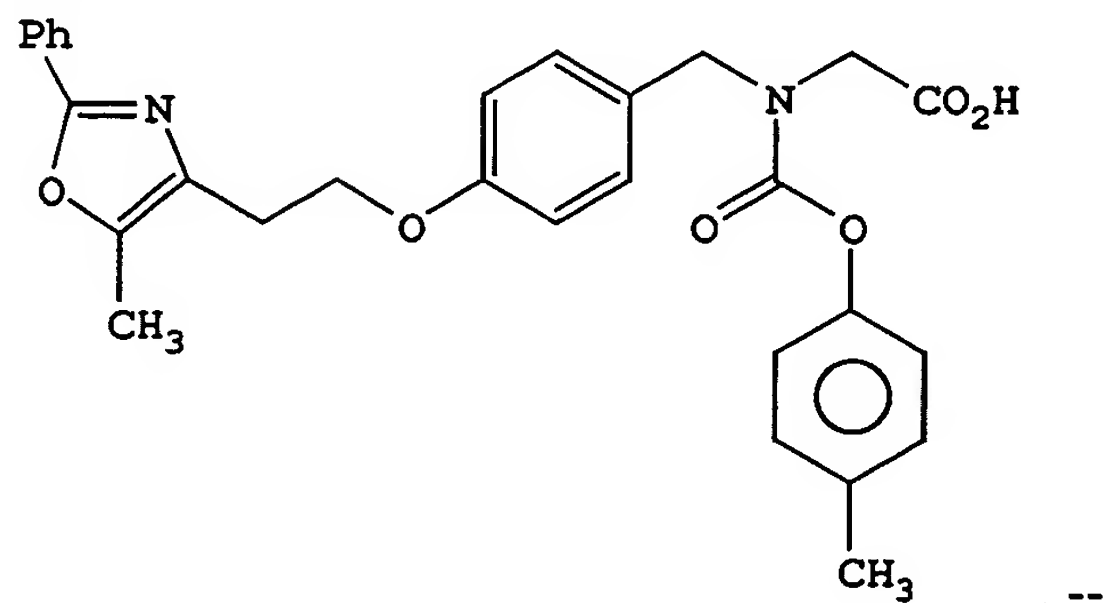
or



**Claims 23 to 25 (cancelled)**

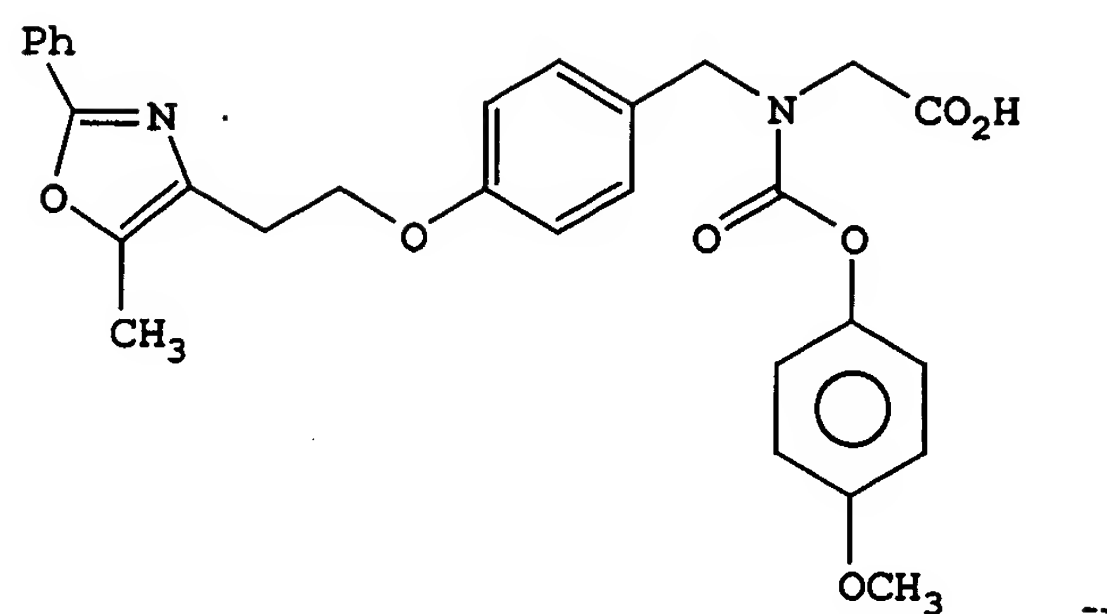
**Claim 26 (previously amended)**

--26. The method as defined in Claim 55 wherein the compound employed has the structure



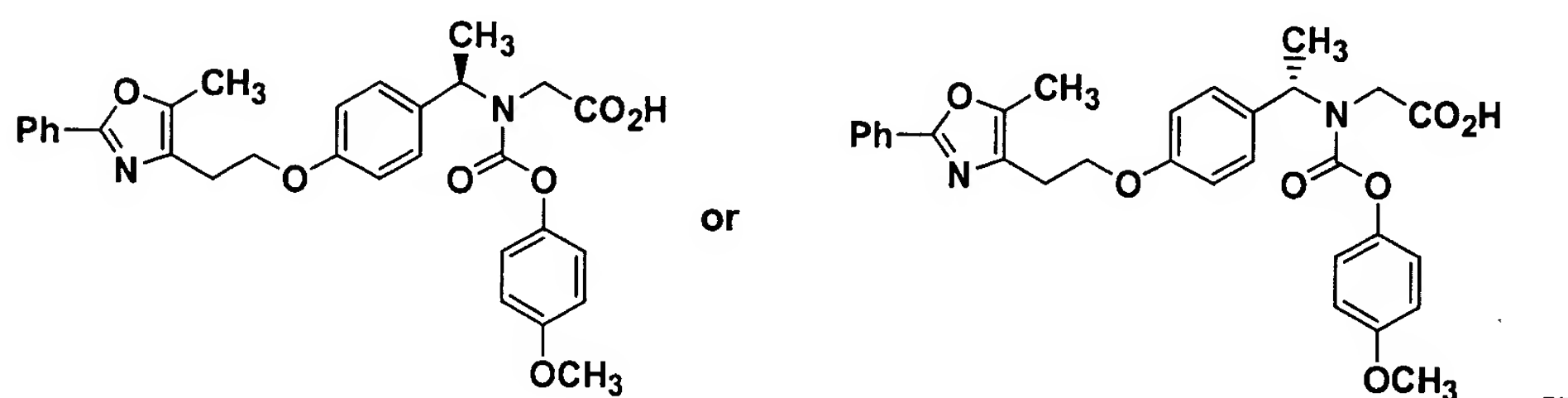
**Claim 27 (previously amended)**

--27. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 28 (previously amended)**

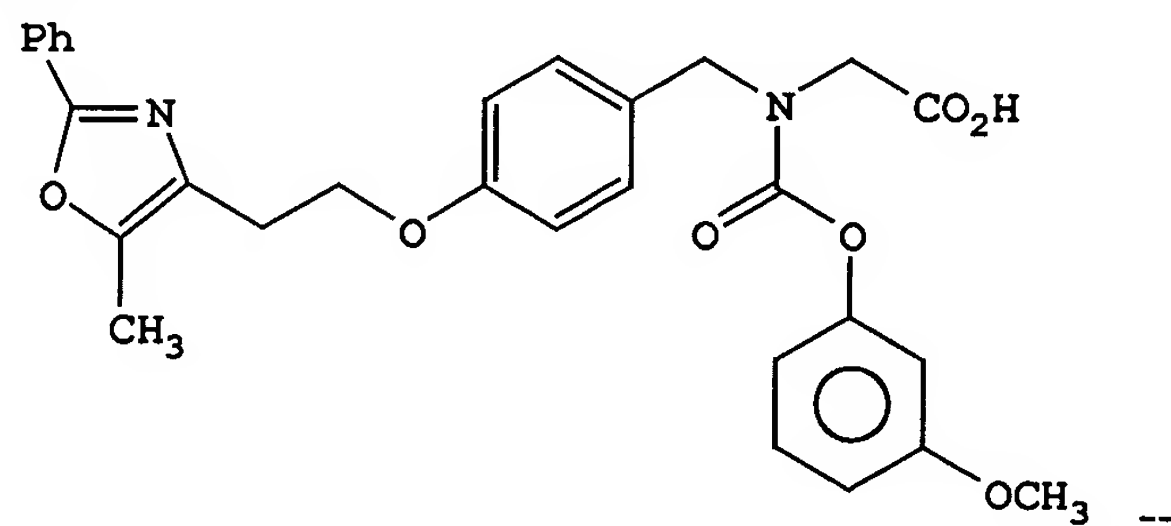
--28. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 29 (cancelled)**

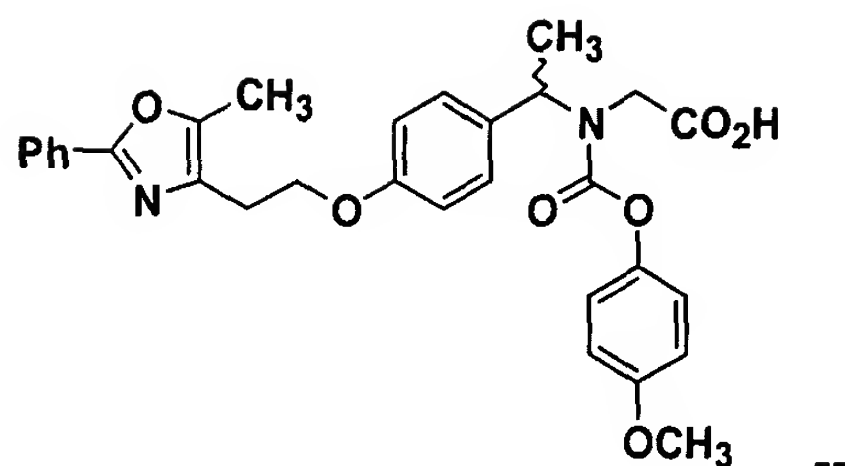
**Claim 30 (previously amended)**

--30. The method as defined in Claim 55 wherein the compound employed has the structure



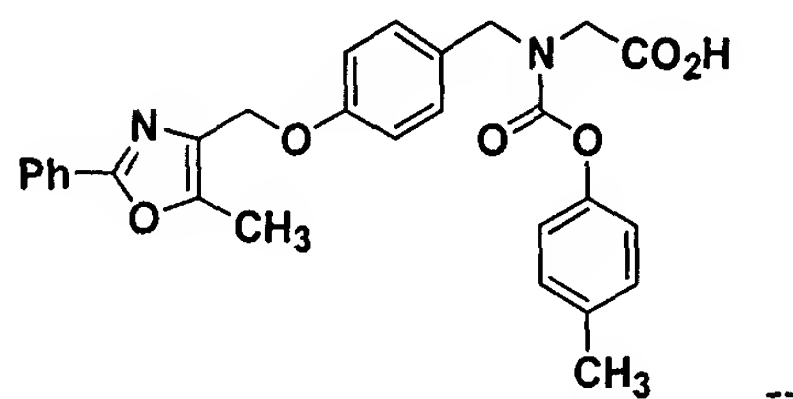
**Claim 31 (previously amended)**

--31. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 32 (previously amended)**

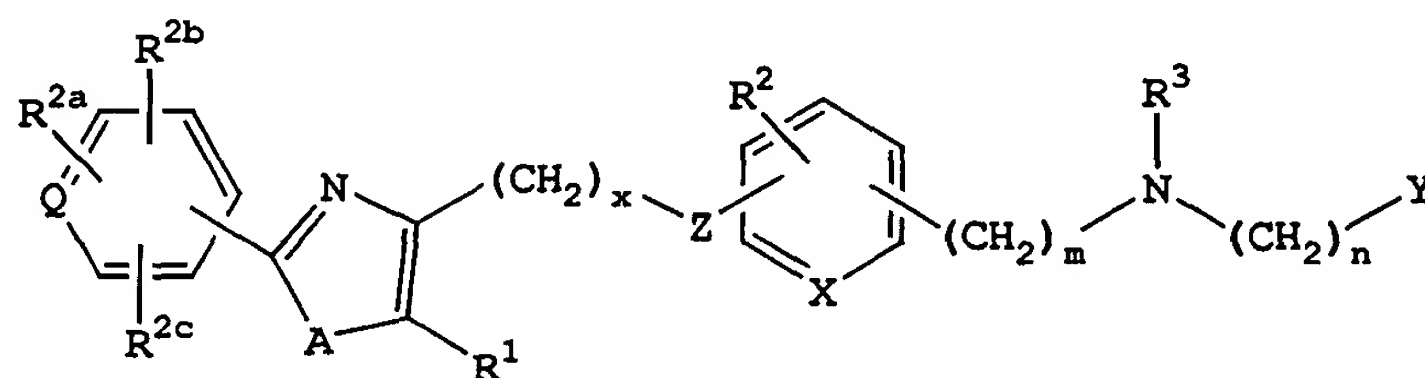
--32. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 33 (cancelled)**

**Claim 34 (currently amended)**

--34. A method for lowering blood glucose levels or for treating diabetes, or for treating an early malignant disease, a malignant disease, a malignant disease, or a dysplastic disease, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound which has the structure



wherein x is 1, 2, 3 or 4; m is 1 or 2; n is 1 or 2;

Q is C or N;

A is O or S;

Z is O or a bond;

R<sup>1</sup> is H or lower alkyl;

X is CH;

R<sup>2</sup> is H, or alkyl, alkoxy, halogen, amino or substituted amino;

$R^{2a}$ ,  $R^{2b}$  and  $R^{2c}$  are the same or different and are selected from H, or alkyl, ~~alkoxy,~~  
~~halogen, amino or substituted amino;~~

R<sup>3</sup> is aryloxy carbonyl, alkyl oxy carbonyl, alkynyl oxy carbonyl, alkenyl oxy carbonyl, alkyl(halo)aryloxy carbonyl, alkyl oxy(halo)aryloxy carbonyl, cycloalkyl aryloxy carbonyl, cycloalkyl oxy aryloxy carbonyl, alkyl carbonyl amino, aryl carbonyl amino, hetero aryl carbonyl amino, alkoxy carbonyl amino, aryloxy carbonyl amino, hetero aryl oxy carbonyl amino, alkyl sulfonyl, alkenyl sulfonyl, hetero aryl oxy carbonyl, cyclo hetero alkyl oxy carbonyl, hetero aryl alkenyl, hydroxy alkyl, alkoxy, alkoxy aryloxy carbonyl, aryl alkyl oxy carbonyl, alkyl aryloxy carbonyl, alkynyl oxy carbonyl, halo alkoxy aryloxy carbonyl, alkoxy carbonyl aryloxy carbonyl, aryloxy aryloxy carbonyl, aryl alkenyl oxy carbonyl, hetero aryl oxy aryl alkyl, aryloxy aryl alkyl oxy carbonyl, aryloxy alkyl oxy carbonyl, aryl alkyl sulfonyl, aryl thiocarbonyl, aryl alkenyl sulfonyl, hetero aryl sulfonyl, aryl sulfonyl, hetero aryl alkoxy carbonyl, hetero aryl alkyl oxy aryl alkyl, aryl alkenyl aryl alkyl, aryl alkoxy carbonyl hetero aryl alkyl, hetero aryl oxy aryl alkyl, aryl alkenyl hetero aryl alkyl or poly halo alkyl aryloxy carbonyl;

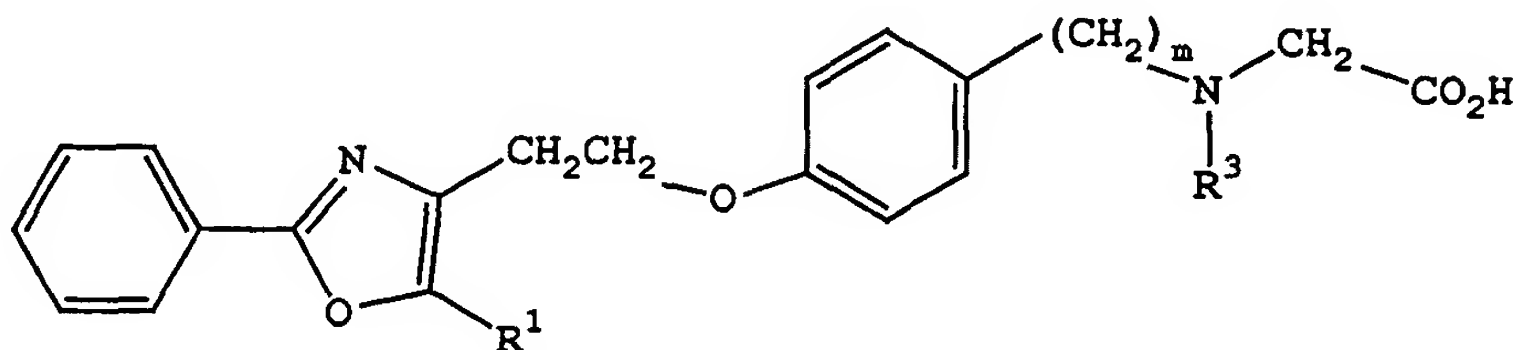
~~Y is CO<sub>2</sub>R<sup>4</sup> where R<sup>4</sup> is H or alkyl, or a prodrug ester or Y is a C-linked 1-tetrazole, a phosphinic acid of the structure P(O)(OR<sup>4a</sup>)R<sup>5</sup> where R<sup>4a</sup> is H or a prodrug ester, R<sup>5</sup> is alkyl or aryl or a phosphonic acid of the structure P(O)(OR<sup>4a</sup>)<sub>2</sub> where R<sup>4a</sup> is H or a prodrug ester;~~

or stereoisomers thereof, a prodrug ~~esters~~ ester thereof, and a pharmaceutically acceptable salts salt thereof. —

### Claims 35 to 54 (cancelled)

**Claim 55 (previously added)**

55. A method for lowering blood glucose levels or for treating diabetes, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound which has the structure



where R<sup>1</sup> is alkyl,

(CH<sub>2</sub>)<sub>m</sub> is CH<sub>2</sub> or  $\begin{array}{c} \text{CH}_3 \\ | \\ \text{---CH---} \end{array}$  and R<sup>3</sup> is aryloxy carbonyl or alkoxyaryloxy carbonyl.

**Claim 56 (previously added)**

~~56.~~ The method as defined in Claim 55 where in the compound employed (CH<sub>2</sub>)<sub>m</sub> is CH<sub>2</sub>.

**Claims 57 and 58 (cancelled)**